

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	D7 HMA RESURF 2010-1	RICHLAND	31	1
		ILLINOIS	CONTRACT NO. 74447	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

F.A.P. ROUTE 116 (IL. RTE. 130)  
SECTION D7 HMA RESURF 2010-1

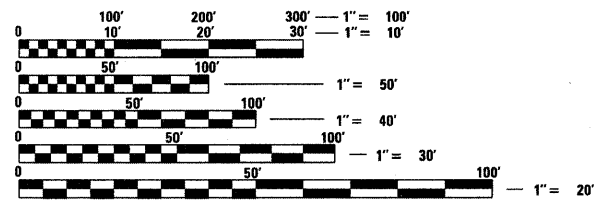
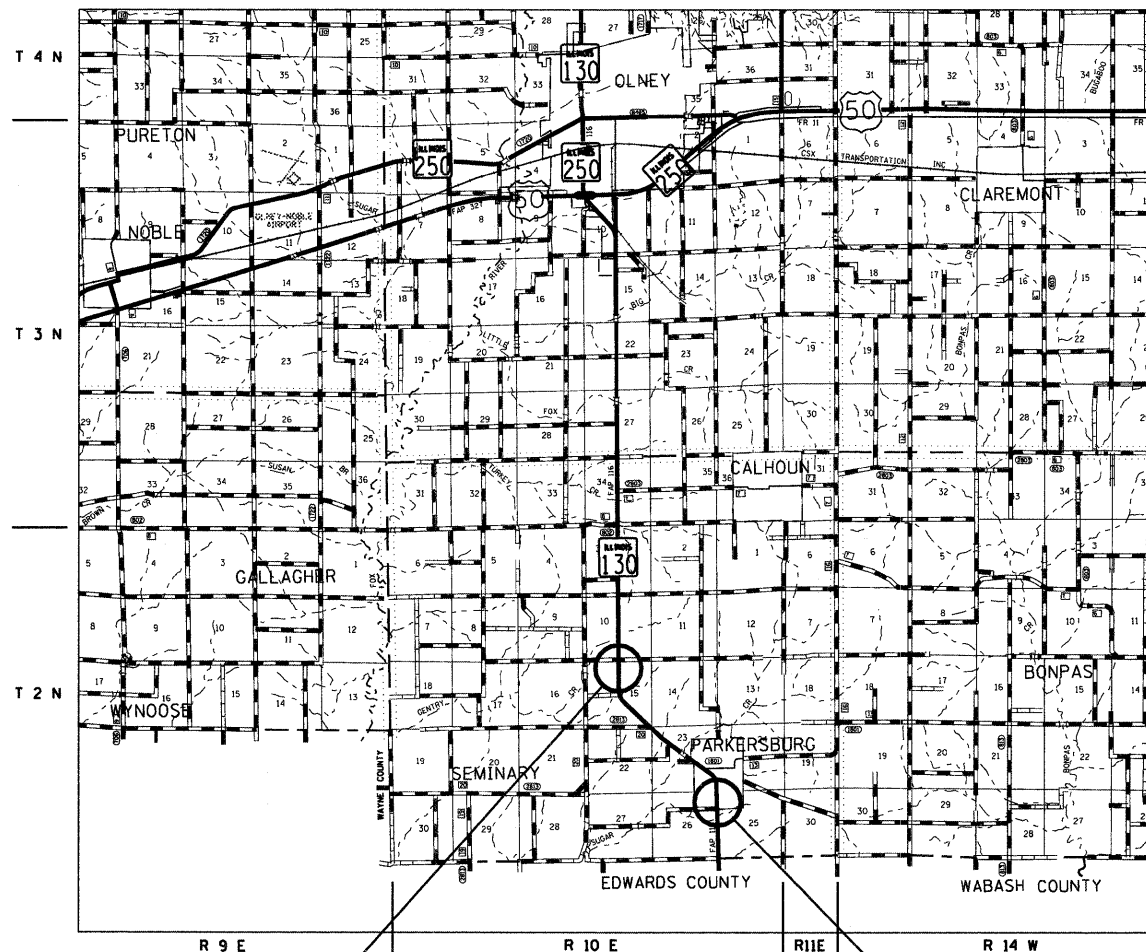
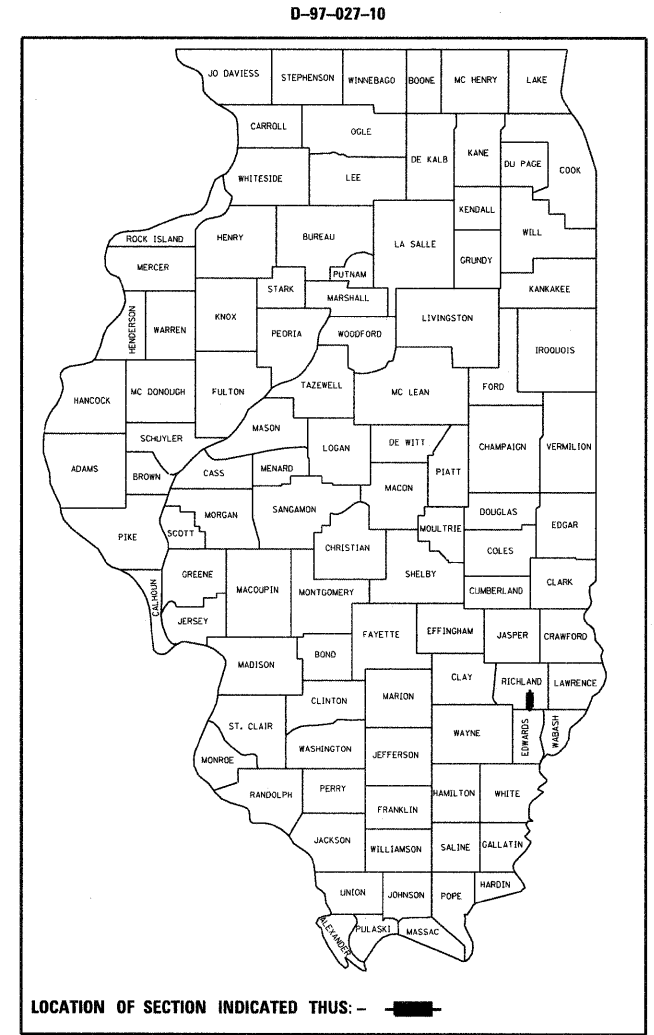
**PROJECT: HSIP-0116(054)  
SAFETY**

**RICHLAND COUNTY**

**C-97-058-10**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 3,200 (2009)



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: TOM RONAN  
PROJECT MANAGER: LUKE WASSON

CONTRACT NO. 74447

F.A.P. ROUTE 116 (IL. RTE. 130)  
SECTION D7 HMA RESURF 2010-1  
RICHLAND COUNTY  
BEGINS STA. 458+33

GROSS LENGTH = 11,469 FT. = 2.17 MILE  
NET LENGTH = 11,469 FT. = 2.17 MILE

F.A.P. ROUTE 116 (IL. RTE. 130)  
SECTION D7 HMA RESURF 2010-1  
RICHLAND COUNTY  
ENDS STA. 574+27

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED February 22 20 10

*Regis L. Sindell*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 7 20 10  
*Scott E. Stitt, P.E.*  
Acting ENGINEER OF DESIGN AND ENVIRONMENT

May 7 20 10  
*Christine M. Reed*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

**INDEX OF SHEETS**

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS & GENERAL NOTES
3	SUMMARY OF QUANTITIES
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7-8	SCHEDULES
9	ENTRANCE SCHEDULE AND DETAILS
10-15	PLAN SHEETS
16-19	PAVEMENT MARKING DETAILS
20-31	CROSS SECTIONS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 31:

STD. NO.	DESCRIPTION
00001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-02	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY
701336-05	LANE CLOSURE, 2L, 2W, WORK AREA IN SERIES, FOR SPEEDS >= 45 MPH
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

**GENERAL NOTES**

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2010, AND THE SPECIAL PROVISIONS INCLUDED IN THIS PROPOSAL.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF MILLING AND OVERLAYING THE PAVEMENT WITH HOT-MIX ASPHALT TO CORRECT THE SUPERELEVATION ON A CURVE, HOT-MIX ASPHALT AND AGGREGATE SHOULDERS ADJACENT TO TWO CURVES, PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

THIS PROJECT IS LOCATED ON ILLINOIS ROUTE 130 AT THE CURVE IN PARKERSBURG AND THE CURVE NORTHWEST OF PARKERSBURG IN RICHLAND COUNTY.

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS. SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED SURFACE, BITUMINOUS MATERIALS (PRIME COAT), HOT-MIX ASPHALT BINDER COURSE, AND HOT-MIX ASPHALT SURFACE COURSE AS SPECIFIED IN SECTION 703 OF THE STANDARD SPECIFICATIONS. TEMPORARY TAPE SHALL BE USED ON THE SURFACE COURSE AND PAINT SHALL BE USED ON MILLED SURFACES.

THE TOTAL QUANTITY OF PAINT PAVEMENT MARKING - LINE 4" CONSISTS OF 700 FEET OF YELLOW AND 5,603 FEET OF WHITE.

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 781 OF THE STANDARD SPECIFICATIONS. THE TOTAL QUANTITY OF RAISED REFLECTIVE PAVEMENT MARKERS CONSISTS OF 71 TWO-WAY AMBER MARKERS AND 142 ONE-WAY CRYSTAL MARKERS. RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED AT 40' INTERVALS ALONG BOTH EDGE LINES AND CENTERLINE AT BOTH CURVES. REMOVAL OF EXISTING RAISED REFLECTIVE PAVEMENT MARKERS ON THE CURVE IN PARKERSBURG SHALL BE INCLUDED IN THE COST OF NEW RAISED REFLECTIVE PAVEMENT MARKERS.

THE CONTRACTOR SHALL PROVIDE INTERNET ACCESSIBILITY TO THE HOT-MIX ASPHALT PLANT QUALITY CONTROL LAB SO THAT HOT-MIX ASPHALT PLANT REPORTS CAN BE E-MAILED TO THE DISTRICT HEADQUARTERS. THIS WORK SHALL BE INCLUDED IN THE COST OF ALL HOT-MIX ASPHALT PAY ITEMS.

THE CONTRACTOR SHALL USE EITHER RC-70 SSIH OR AN EMULSIFIED POLYMER PRIME SS-IHP FOR THE PAY ITEM BITUMINOUS MATERIALS (PRIME COAT).

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR HOT-MIX ASPHALT LIFTS.

**GENERAL NOTES (Cont' d)**

THE MATERIAL USED FOR AGGREGATE SHOULDERS, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE, OR RAP.

THE MATERIAL EXCAVATED FOR THE CONSTRUCTION OF THE HMA SHOULDERS SHALL BE REMOVED FROM THE PROJECT ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS. THE REMOVAL OF THE EXCAVATED MATERIAL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER UNIT FOR EXCAVATING AND GRADING EXISTING SHOULDERS.

THE PAY ITEM TEMPORARY RAMP HAS BEEN INCLUDED FOR THE CONSTRUCTION OF TEMPORARY RAMPS IN ACCORDANCE WITH ARTICLE 406.08 OF THE STANDARD SPECIFICATIONS. THE CONTRACT UNIT PRICE PER SQUARE YARD FOR TEMPORARY RAMP SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE RAMPS.

THE PAY ITEM HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL, SHALL INCLUDE ALL VARIABLE DEPTH COLD MILLING OF THE EXISTING PAVEMENT AT A DEPTH DETERMINED BY THE ENGINEER IN THE FIELD. HOT-MIX ASPHALT REMOVAL, SPECIAL, SHALL BE COMPLETED PRIOR TO ANY PAVEMENT PATCHING.

THE PAY ITEMS, CLASS D PATCHES, TYPE II, III, AND IV - 12", HAVE BEEN INCLUDED FOR THE CONSTRUCTION OF PAVEMENT PATCHING WHERE EXISTING PORTLAND CEMENT CONCRETE PAVEMENT IS MARRED DURING COLD MILLING OF THE SLOPE CORRECTION. ANY PORTLAND CEMENT CONCRETE PAVEMENT DISFIGURED DURING THE MILLING PROCESS SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH ARTICLE 442 OF THE STANDARD SPECIFICATIONS. THE MINIMUM WIDTH OF THE PAVEMENT PATCHES SHALL BE NO LESS THAN A FULL LANE WIDTH IN ORDER TO ENSURE PROPER SLOPE CORRECTION. THE TOP 2 INCHES OF ALL TYPE IV PATCHES SHALL BE PLACED WITH A HOT-MIX ASPHALT PAVER EQUIPPED WITH ELECTRONIC SLOPE CONTROL.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LEVEL BINDER (3/4")	
APPLICATION:	LEVELING BINDER (MACHINE METHOD) N70
PG GRADE:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ DESIGN = 70
MIXTURE COMPOSITION:	IL-9.5
FRICTION AGGREGATE:	N/A

SURFACE COURSE (1 1/2")	
APPLICATION:	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70
PG GRADE:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ DESIGN = 70
MIXTURE COMPOSITION:	IL-9.5
FRICTION AGGREGATE:	MIXTURE C

INCIDENTAL HMA	
APPLICATION:	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70
PG GRADE:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ DESIGN = 70
MIXTURE COMPOSITION:	IL-9.5
FRICTION AGGREGATE:	MIXTURE C

PAVEMENT PATCHING	
APPLICATION:	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
PG GRADE:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ DESIGN = 70
MIXTURE COMPOSITION:	IL-19.0
FRICTION AGGREGATE:	N/A

HMA SHOULDERS	
APPLICATION:	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70
PG GRADE:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ DESIGN = 70
MIXTURE COMPOSITION:	IL-9.5
FRICTION AGGREGATE:	N/A

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

HOT MIX ASPHALT	112 LBS/SQ YD/IN
BITUMINOUS MATERIALS PRIME COAT	0.10 GALLONS/SQ YD
AGGREGATE PRIME COAT	2.00 LBS/SQ YD
GRANULAR MATERIAL	2.05 TONS/CU YD

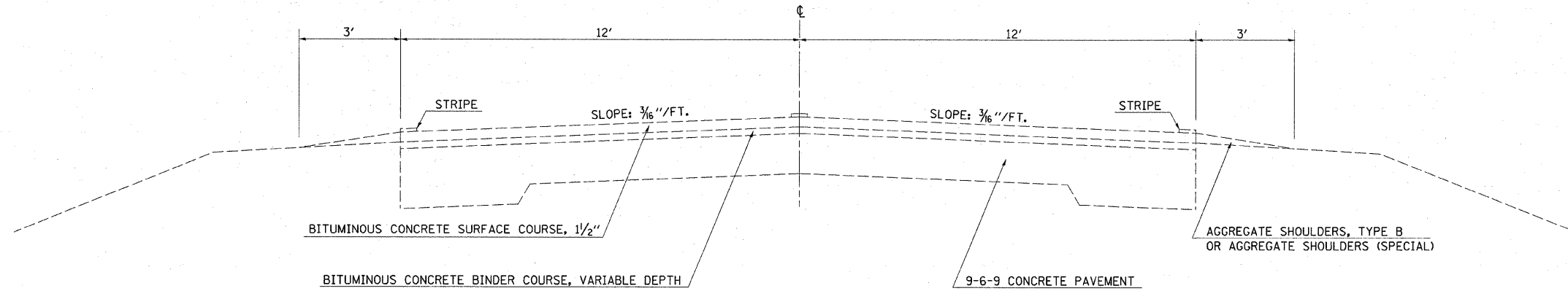
90% FED./10% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE
CODE NO	ITEM	UNIT		SFTY-2A
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	28	28
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5	0.5
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	51	51
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	7	7
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	830	830
40600300	AGGREGATE (PRIME COAT)	TON	17	17
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	174	174
40600990	TEMPORARY RAMP	SQ YD	46	46
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	349	349
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	4	4
44000196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	4151	4151
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	40	40
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	60	60
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	333	333
48101200	AGGREGATE SHOULDERS, TYPE B	TON	228	228
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1868	1868
67100100	MOBILIZATION	L SUM	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	456	456
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3431	3431
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	51	51
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	6303	6303
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	213	213

\*Specialty Items

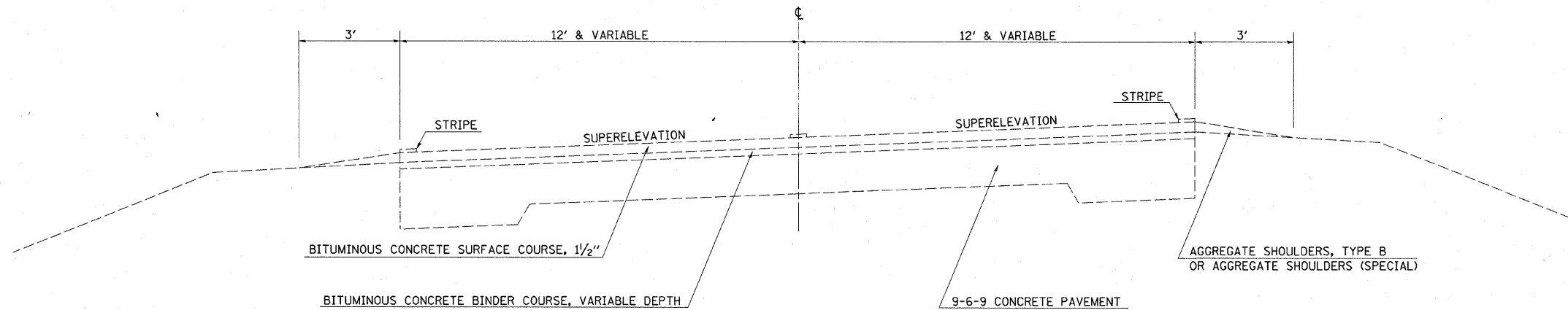
**EXISTING TYPICAL CROSS SECTION**

STA. 458+33.00 TO STA. 461+57.81  
 STA. 470+73.81 TO STA. 473+58.00  
 STA. 561+50.80 TO STA. 563+50.80  
 STA. 572+27.28 TO STA. 574+27.28



**EXISTING TYPICAL CROSS SECTION**

STA. 461+57.81 TO STA. 470+73.81  
 STA. 563+50.80 TO STA. 572+27.28



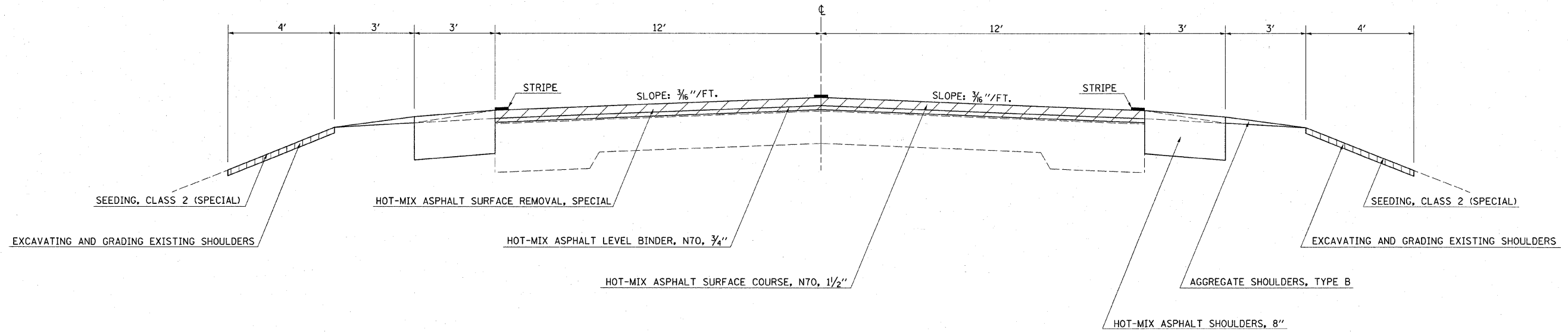
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	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -		SCALE: NA	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 2/22/2010	DATE -	REVISED -						CONTRACT NO. 7447		



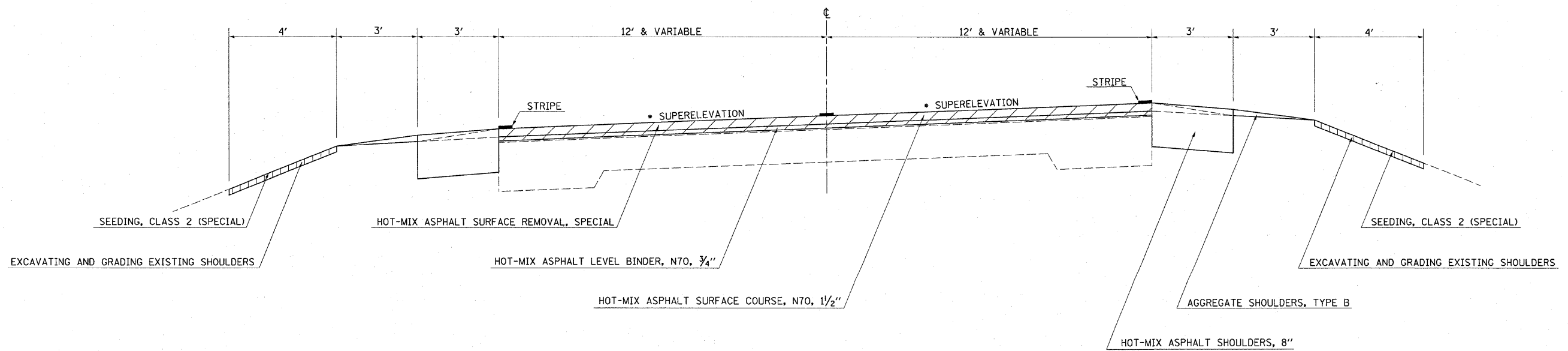
**PROPOSED TYPICAL CROSS SECTION**

STA. 458+33.00 TO STA. 461+57.81  
 STA. 470+73.81 TO STA. 473+58.00



**PROPOSED TYPICAL CROSS SECTION**

STA. 461+57.81 TO STA. 470+73.81



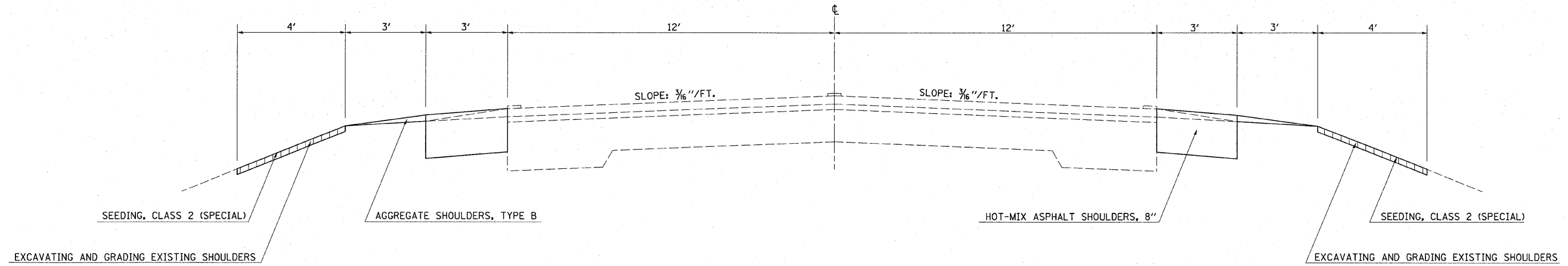
\* SEE SUPERELEVATION SCHEDULE FOR APPLICABLE RATES.

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PLOT DATE = 2/22/2010	DATE -	REVISED -	SCALE: NA		SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				
CONTRACT NO. 74447												
CONTRACT NO. 74447												

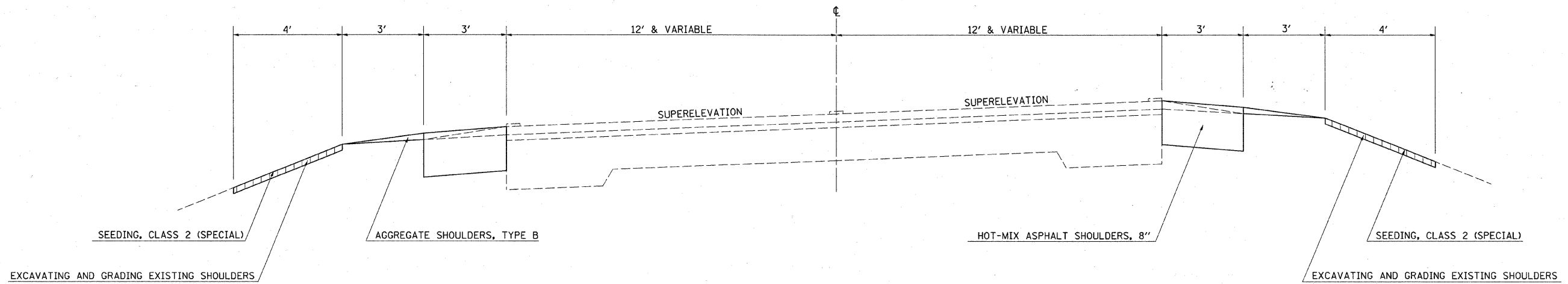
**PROPOSED TYPICAL CROSS SECTION**

STA. 561+50.80 TO STA. 563+50.80  
 STA. 572+27.28 TO STA. 574+27.28



**PROPOSED TYPICAL CROSS SECTION**

STA. 563+50.80 TO STA. 572+27.28



NOTE: NOT DRAWN TO SCALE

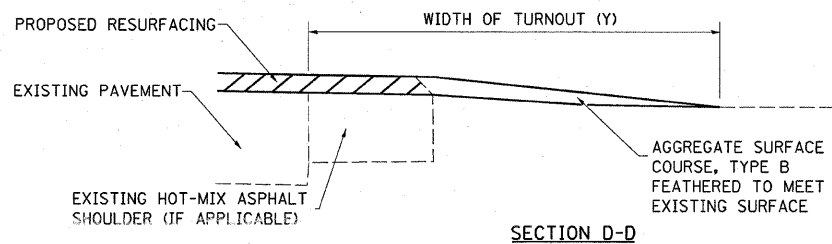
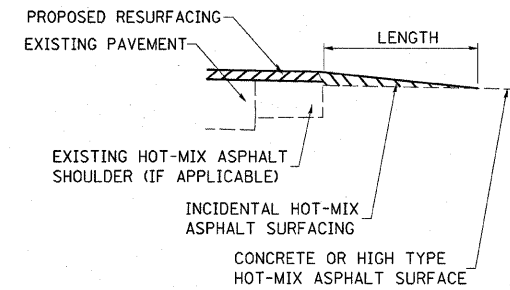
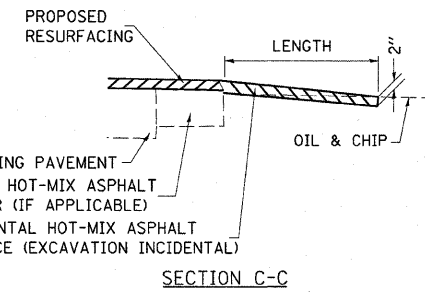
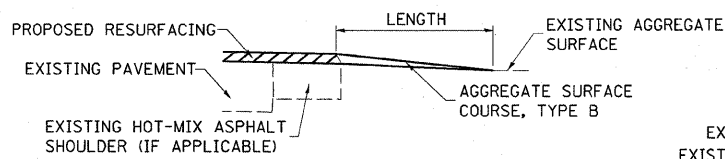
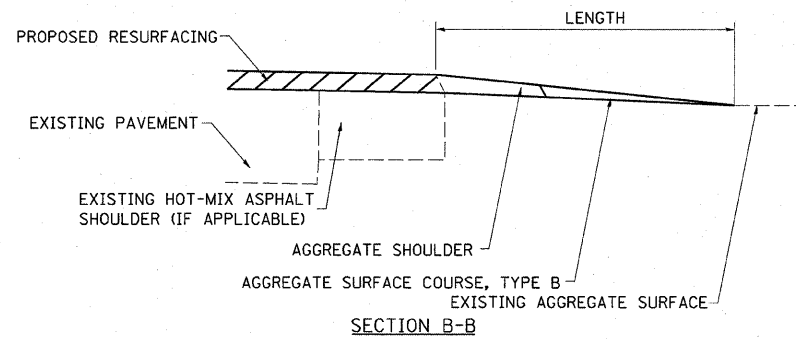
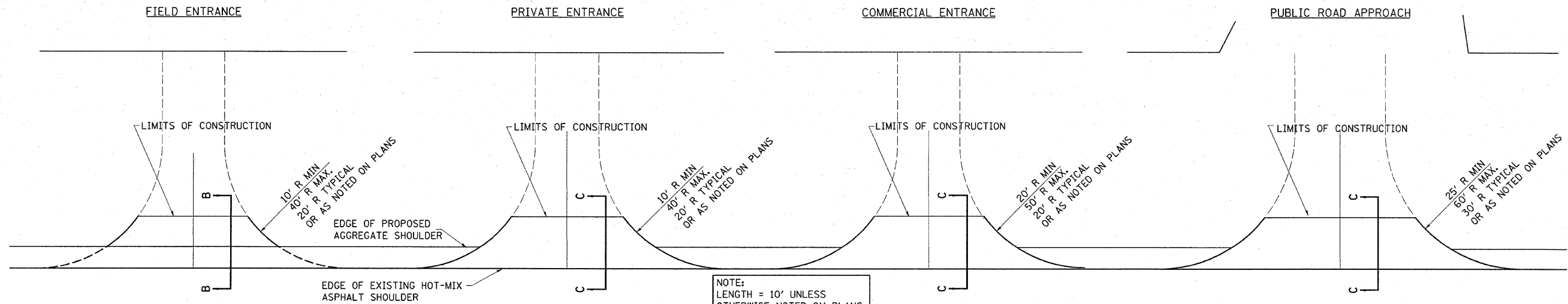
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	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -		SCALE: NA	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 74447			
	PLOT DATE = 2/22/2010	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

RESURFACING SCHEDULE	LENGTH	AVERAGE PAVEMENT WIDTH	AREA	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	LEVELING BINDER (MACHINE METHOD), N70	AGGREGATE SHOULDERS, TYPE B	HOT-MIX ASPHALT SHOULDERS, 8"	TEMPORARY RAMP
	STATION TO STATION	FOOT	FOOT	SQ YD	SQ YD	GALLON	TON	TON	TON	TON	SQ YD
458+33.00 TO 473+58.00	1525.0	24.5	4151.4	4151.4	830.3	16.6	348.7	174.4	125.0	1016.7	46.3
561+50.80 TO 574+27.28	1276.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103.4	851.0	0.0
TOTALS			4151.0	4151.0	830.0	17.0	349.0	174.0	228.0	1868.0	46.0

PAVEMENT MARKING SCHEDULE	LENGTH	PAINT PAVEMENT MARKING - LINE 4"	TEMPORARY PAVEMENT MARKING - LINE 4"	SHORT-TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER
	STATION TO STATION	FOOT	FOOT	FOOT	SQ FT	SQ FT
458+33.00 TO 473+58.00	1525.0	3431.3	3431.3	456.0	50.7	117.0
561+50.80 TO 574+27.28	1276.5	2872.1	0.0	0.0	0.0	96.0
TOTALS		6303.0	3431.0	456.0	51.0	213.0

### SUPERELEVATION SCHEDULE

STATION	HIGH SIDE	LOW SIDE	NOTES
459+75	-1.50%	-1.50%	Beginning of Tangent Runout
459+83	-1.18%	-1.50%	
460+08	-0.24%	-1.50%	
460+15	0.00%	-1.50%	Beginning of Superelevation Runoff Length
460+33	0.69%	-1.50%	
460+55	1.50%	-1.50%	Edge Breakpoint (where high and low side are equal)
460+58	1.62%	-1.62%	
460+83	2.55%	-2.55%	
461+08	3.48%	-3.48%	
461+33	4.41%	-4.41%	
461+58	5.36%	-5.36%	P.C. ( 67% of superelevation runoff length)
461+83	6.27%	-6.27%	
462+08	7.20%	-7.20%	
462+30	8.00%	-8.00%	Design "e" Attained
470+02	8.00%	-8.00%	Design "e" Attained
470+08	7.78%	-7.78%	
470+33	6.85%	-6.85%	
470+58	5.92%	-5.92%	
470+74	5.36%	-5.36%	P.T. ( 67% of superelevation runoff length)
470+83	4.99%	-4.99%	
471+08	4.06%	-4.06%	
471+33	3.13%	-3.13%	
471+58	2.20%	-2.20%	
471+77	1.50%	-1.50%	Edge Breakpoint (where high and low side are equal)
471+83	1.27%	-1.50%	
472+08	0.34%	-1.50%	
472+17	0.00%	-1.50%	Beginning of Superelevation Runoff Length
472+33	-0.59%	-1.50%	
472+57	-1.50%	-1.50%	End of Tangent Runout Station



**TYPICAL SECTION AT MAILBOX TURNOUT**

NOTE: SEE STANDARD 406201 FOR MAILBOX TURNOUT DETAILS

**NOTES**

THE COST OF THE ASPHALT MATERIALS, AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROADS AND APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

THE COST OF EXCAVATION IS INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

IF THERE IS NOT EXISTING HOT-MIX ASPHALT SHOULDER THEN THE ENTRANCE TAPER STARTS AT THE EDGE OF EXISTING PAVEMENT.

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON
RT	464+49	PE	3.9	
LT	470+99	FE		2.6
RT	470+96	FE		2.7
LT	566+35	PRA		
LT	571+06	PRA		
LT	572+50	PE		
LT	573+06	FE		1.2
TOTALS			3.9	6.5

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON

SIDE	STATION	TYPE	INCIDENTAL HOT-MIX ASPHALT SURFACING	
			TON	TON

FE=FIELD ENTRANCE      PRA - PUBLIC ROAD APPROACH  
 PE=PRIVATE ENTRANCE    MBT - MAILBOX TURNOUT  
 CE=COMMERCIAL ENTRANCE

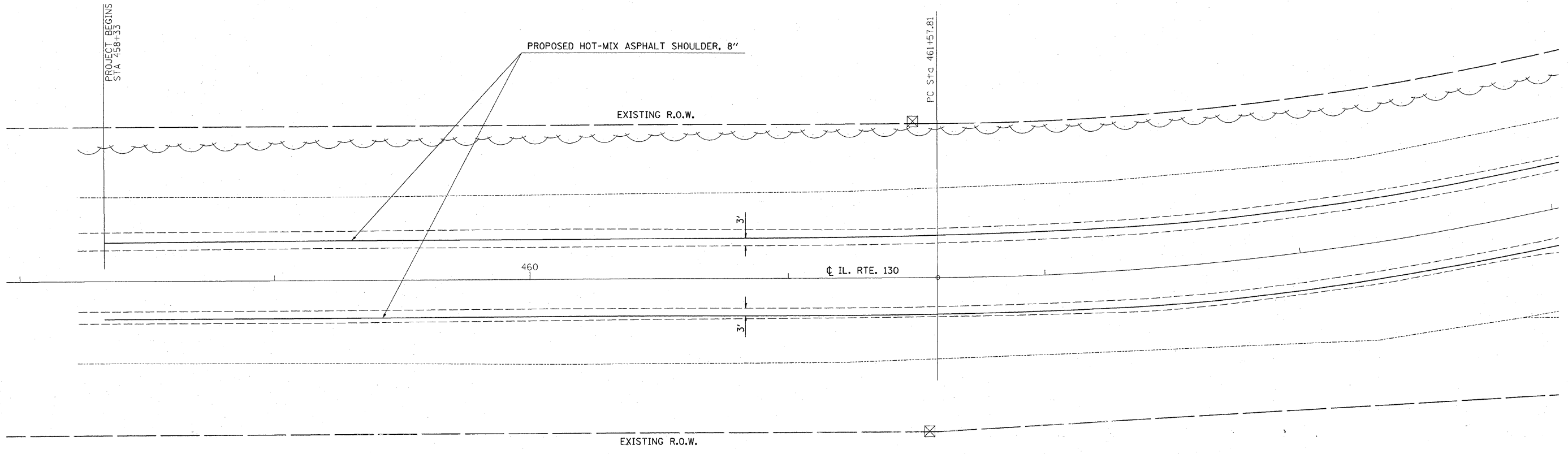
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		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**RURAL ENTRANCE SCHEDULE AND MAILBOX TURNOUT DETAILS  
 WITH SHOULDERS**

SCALE: NA      SHEET NO. 1 OF 1 SHEETS      STA.      TO STA.

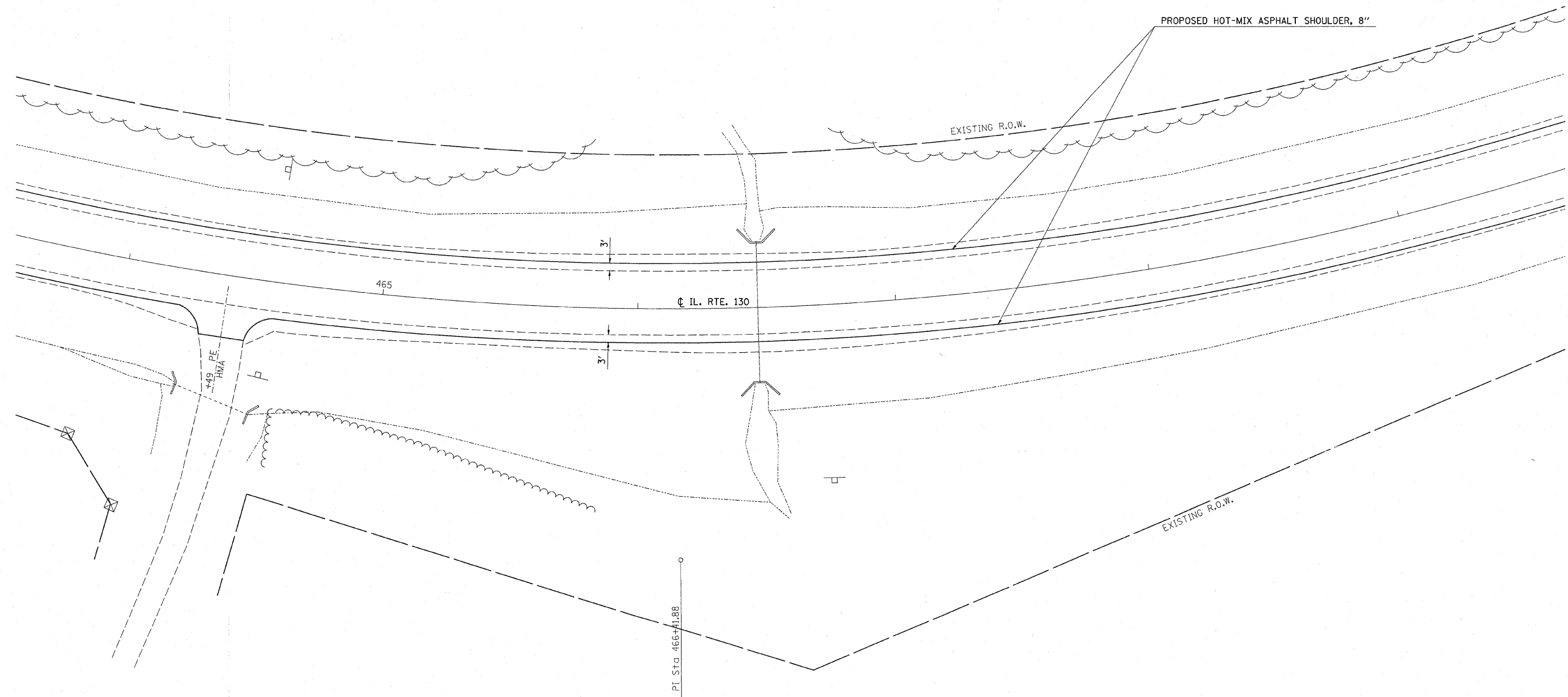
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CONTRACT NO. 74447				
FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT				



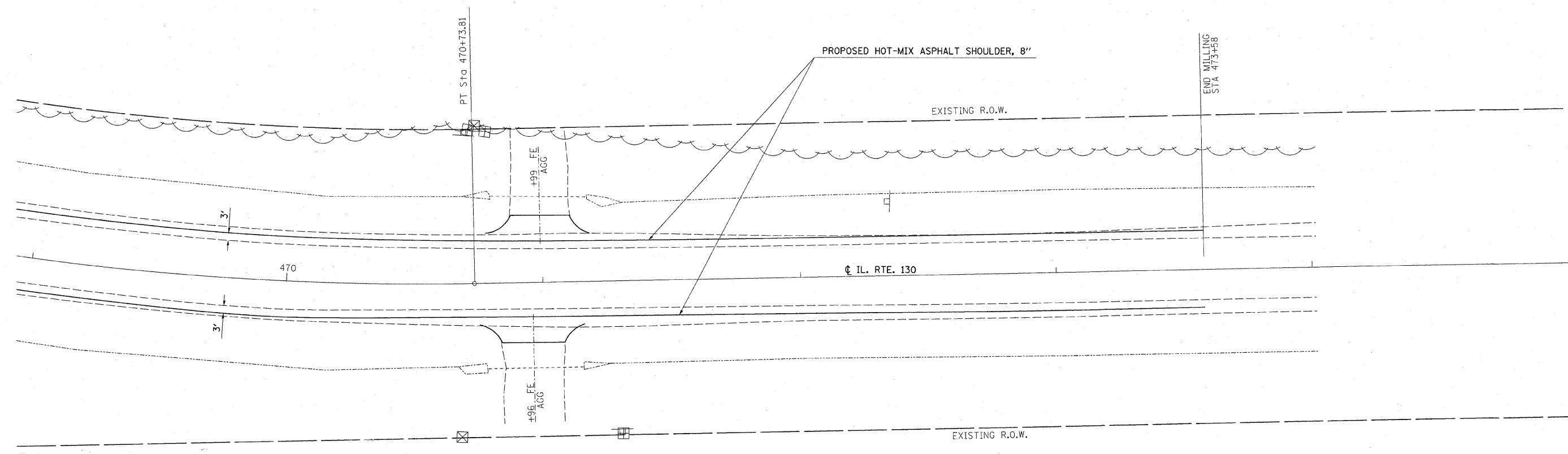
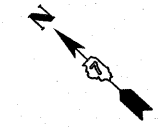
FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pw\work\pwidot\swartzrw\d0177578\077447-shtrplan.dgn		DRAWN -	REVISED -				116	D7 HMA RESURF 2010-1	RICHLAND	31	10	
PLOT SCALE = 20.0000' / IN.		CHECKED -	REVISED -		SCALE: 20		SHEET NO. 1 OF 6 SHEETS		STA.	TO STA.	CONTRACT NO. 74447	
PLOT DATE = 2/22/2010		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



EXIST. CURVE C1  
 PI STA. = 466+41.88  
 $\Delta = 45^\circ 48' 41''$  (LT)  
 $D = 5^\circ 00' 04''$   
 $R = 1,145.63'$   
 $T = 484.07'$   
 $L = 916.00'$   
 $E = 98.07'$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. \text{ RUN} = \text{-----}$   
 P.C. STA. = 461+57.81  
 P.T. STA. = 470+73.81

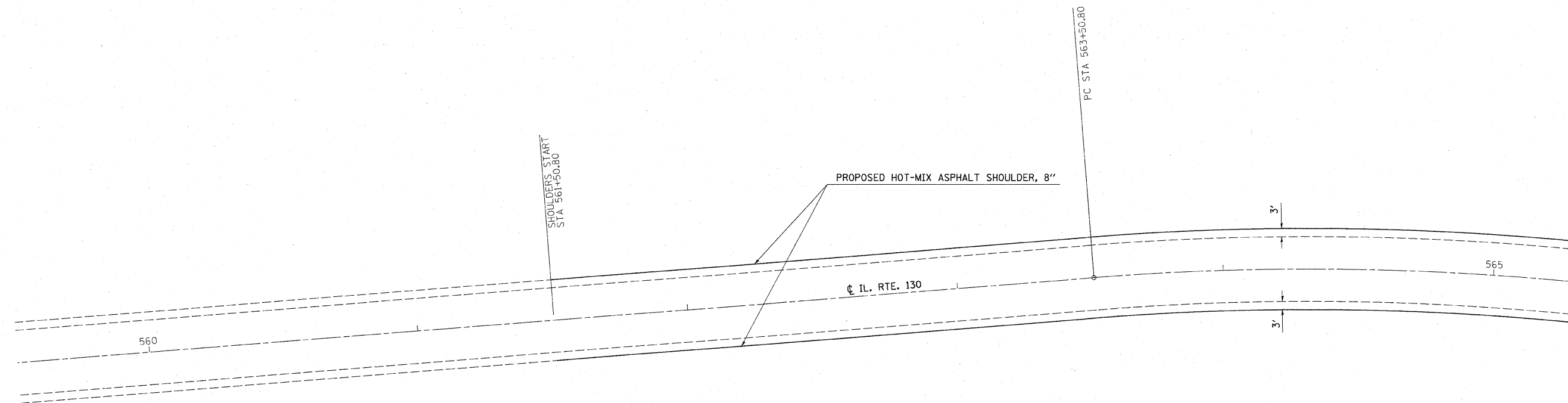
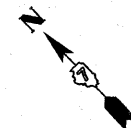


FILE NAME = c:\pw_work\p\dot\swartzr\48177578\0774	USER NAME = swartzr 447-shr-plan.dgn	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 28.0000' / IN.	DRAWN -	REVISED -		SCALE: 20	SHEET NO. 2 OF 6 SHEETS	STA.	TO STA.	116	D7 HMA RESURF 2010-1	RICHLAND	31	11
	PLOT DATE = 2/22/2010	CHECKED -	REVISED -					<b>CONTRACT NO. 74447</b>					
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT					



FILE NAME = c:\pwwork\pwwork\swartzrw\d0177578\077	USER NAME = swartzrw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	447-shtrplan.dgn	DRAWN -	REVISED -		116	D7 HMA RESURF 2010-1	RICHLAND	31	12		
PLOT SCALE = 20.0000 // IN.	CHECKED -	REVISED -	SCALE: 20		SHEET NO. 3 OF 6 SHEETS		CONTRACT NO. 74447				
PLOT DATE = 2/22/2010	DATE -	REVISED -	STA. TO STA.		ILLINOIS FED. AID PROJECT						

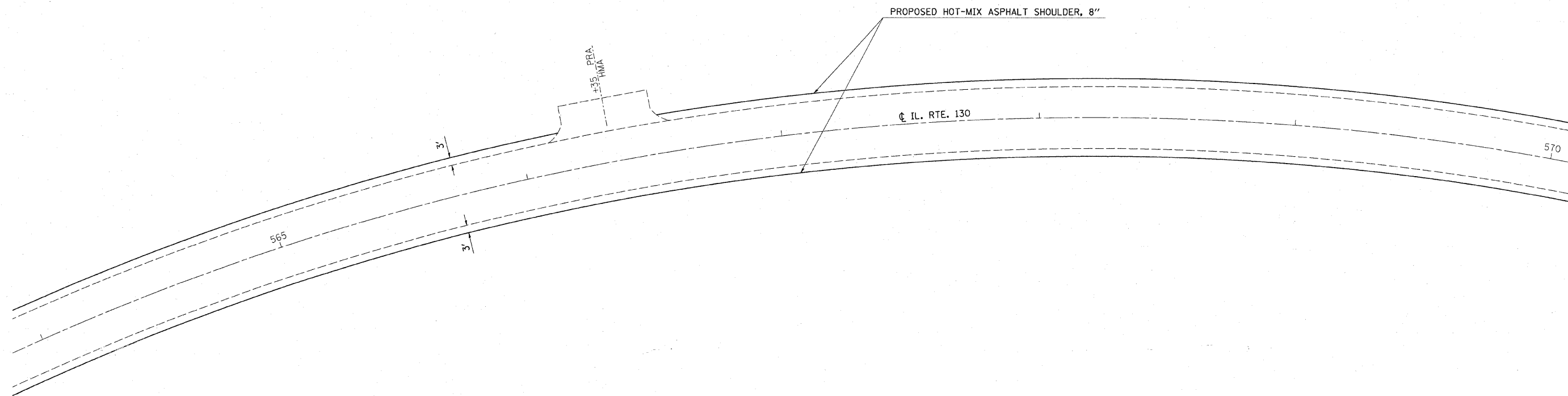




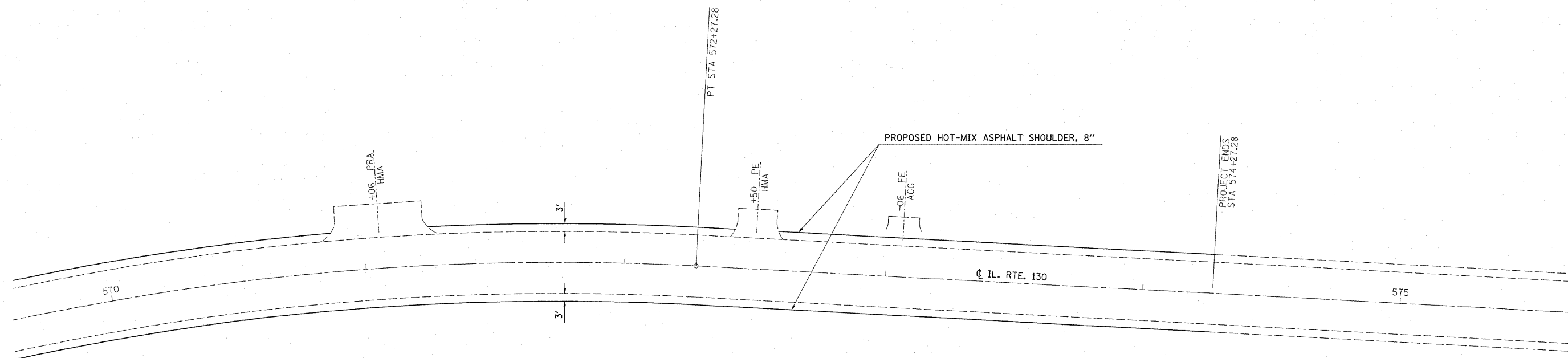
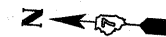
FILE NAME = c:\pw_work\pvidot\swartzr\ad0177578\0774	USER NAME = swartzr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	447-shr-plan.dgn	DRAWN -	REVISED -					116	D7 HMA RESURF 2010-1	RICHLAND	31	13
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -		SCALE: 20    SHEET NO. 4 OF 6 SHEETS    STA. 560+00 TO STA. 565+00			CONTRACT NO. 74447				
	PLOT DATE = 2/22/2010	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



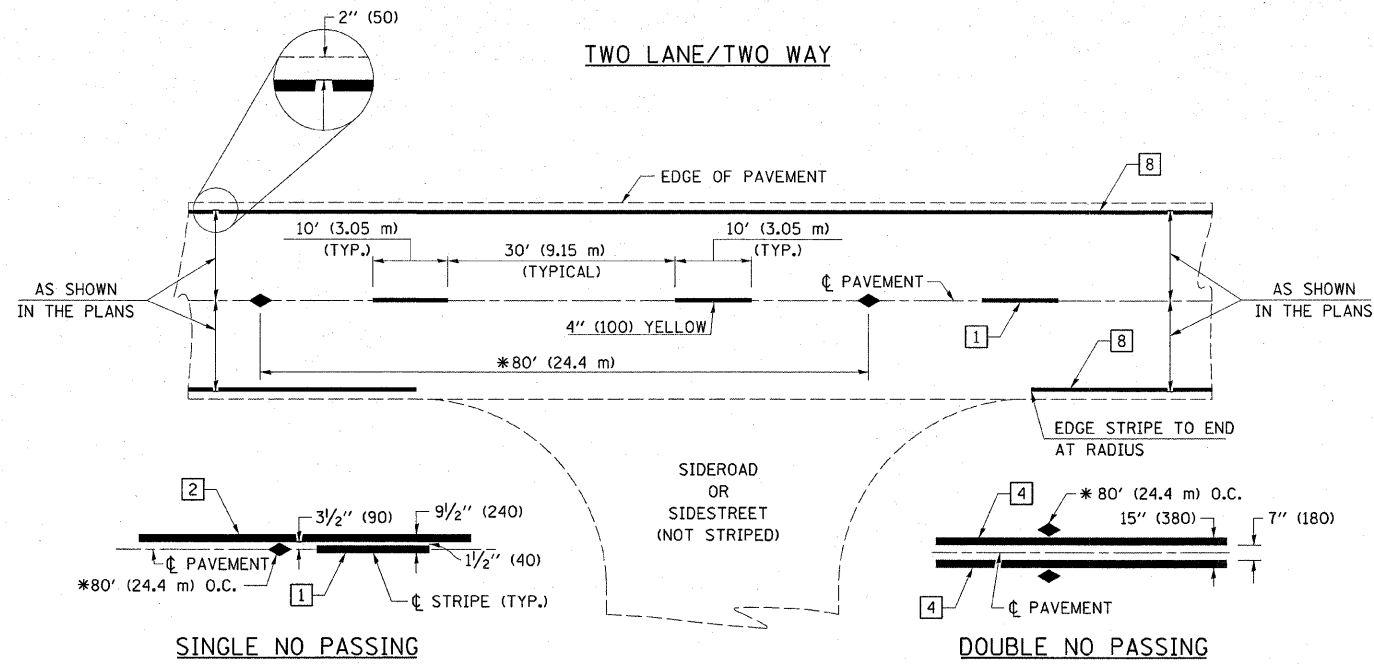
EXIST. CURVE C2  
 PI STA. = 568+16.69  
 $\Delta = 49^\circ 38' 49.19''$  (LT)  
 $D = 5^\circ 39' 51.77''$   
 $R = 1,011.51'$   
 $T = 467.85'$   
 $L = 876.48'$   
 $E = \text{-----}$   
 $e = \text{-----}$   
 $T.R. = \text{-----}$   
 $S.E. \text{ RUN} = \text{-----}$   
 P.C. STA. = 563+50.80  
 P.T. STA. = 572+27.28



FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\swartzw\d0177578\077	447-shr-plan.dgn	DRAWN -	REVISED -		SCALE: 20	SHEET NO. 5 OF 6 SHEETS	STA. 564+00 TO STA. 570+00	116	D7 HMA RESURF 2010-1	RICHLAND	31	14
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -					<b>CONTRACT NO. 74447</b>				
	PLOT DATE = 2/22/2010	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



FILE NAME = c:\pwork\puidot\swartzw\d8177578\077	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN SHEETS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	447-shr-plen.dgn	DRAWN -	REVISED -					116	D7 HMA RESURF 2010-1	RICHLAND	31	15	
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -		SCALE: 20			SHEET NO. 6 OF 6 SHEETS			STA. 570+00 TO STA. 575+00		
	PLOT DATE = 2/22/2018	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								



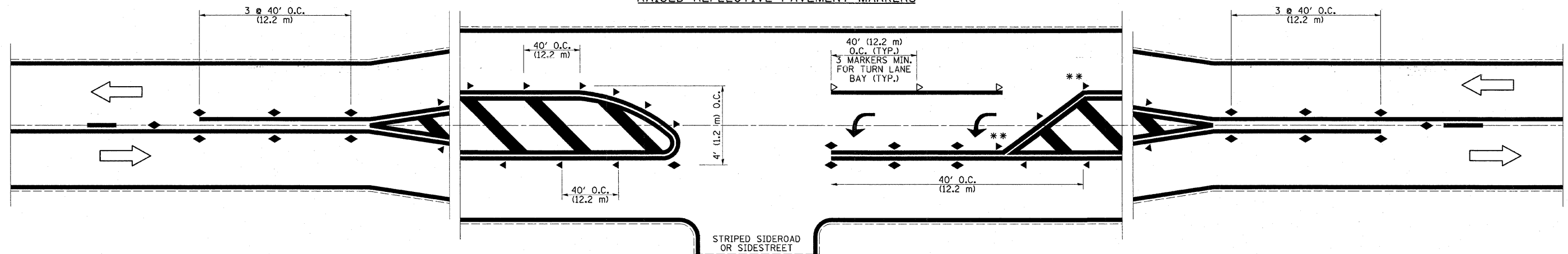
**PAVEMENT MARKING LEGEND**

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 6" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE

**TYPICAL PAVEMENT MARKERS LEGEND**

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

**RAISED REFLECTIVE PAVEMENT MARKERS**



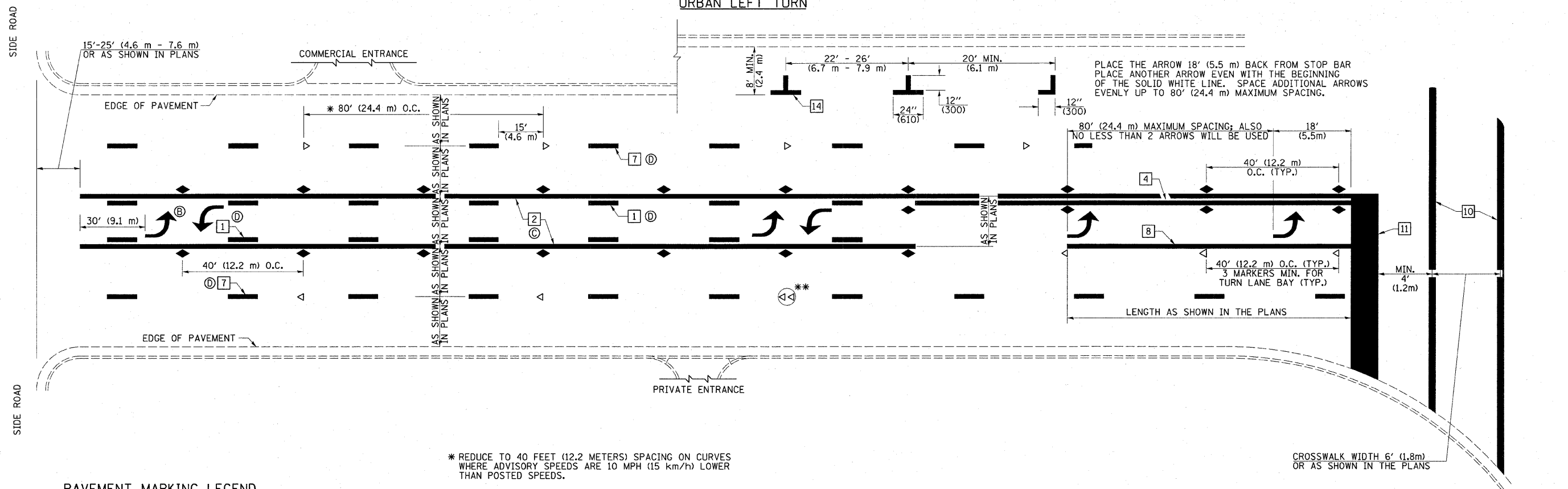
\*\* REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

NOT TO SCALE  
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 7 DETAIL NO. 78000001**

FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr:\pw_work\pwidot\swartzrw\d0177578\d77447-shr-details.dgn		DRAWN -	REVISED -				116	D7 HMA RESURF 2010-1	RICHLAND	31	16
PLOT SCALE = 20,0000 ' / IN.		CHECKED -	REVISED -				CONTRACT NO. 74447				
PLOT DATE = 2/22/2010		DATE -	REVISED -				ILLINOIS FED. AID PROJECT				
					SCALE: NA	SHEET NO. 1 OF 4 SHEETS	STA.	TO STA.			

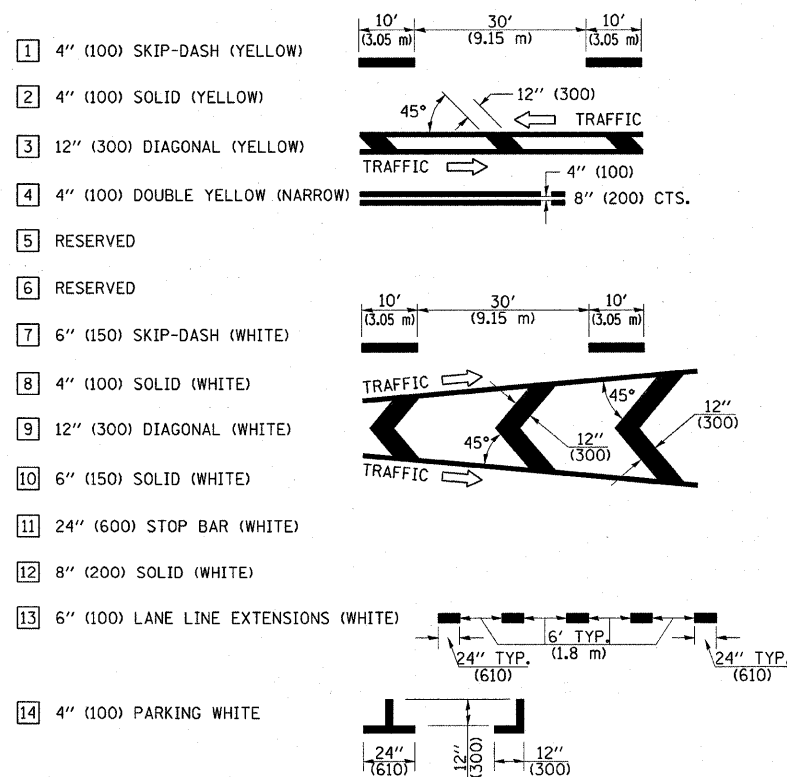
URBAN LEFT TURN



\* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

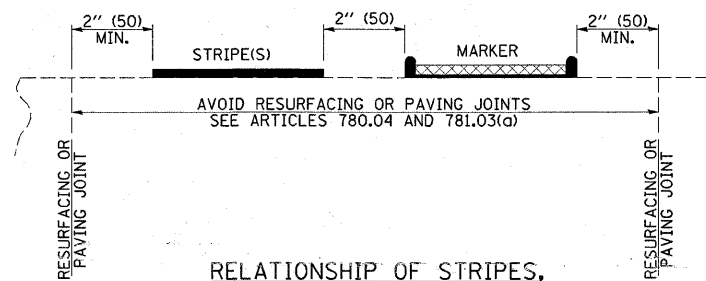
\*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

PAVEMENT MARKING LEGEND

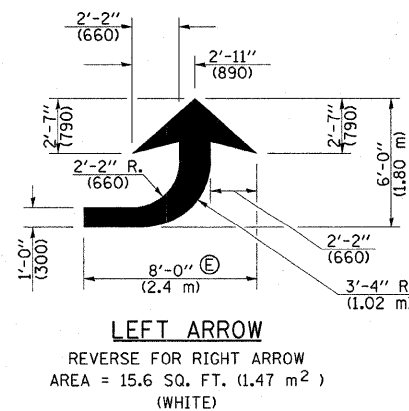


GENERAL NOTES

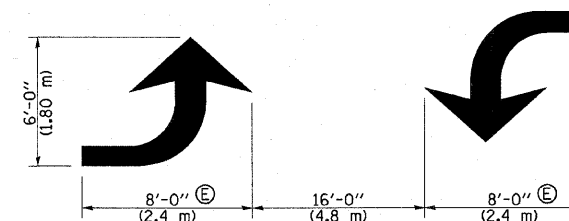
- (B) TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
- (C) THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
- (D) THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
- (E) USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



LEFT ARROW



TYPICAL DOUBLE TURN ARROWS (WHITE)

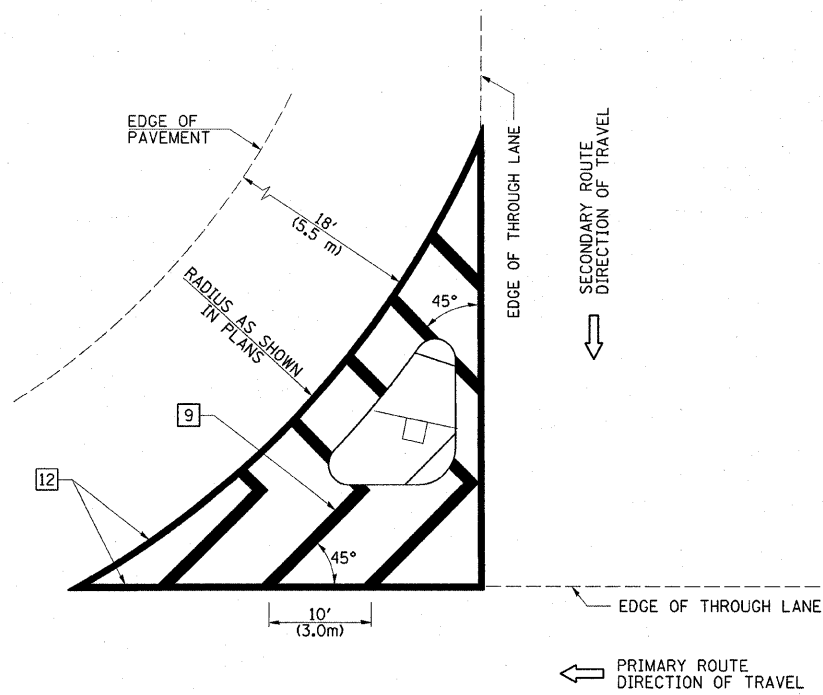
NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = swartzrn	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pw_work\pav\dot\swartzrn\d0177578\d77	447-shd-detail.dgn	DRAWN -	REVISED -				116	D7 HMA RESURF 2010-1	RICHLAND	31	17
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -				CONTRACT NO. 74447				
	PLOT DATE = 2/22/2010	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				

**ISLAND**

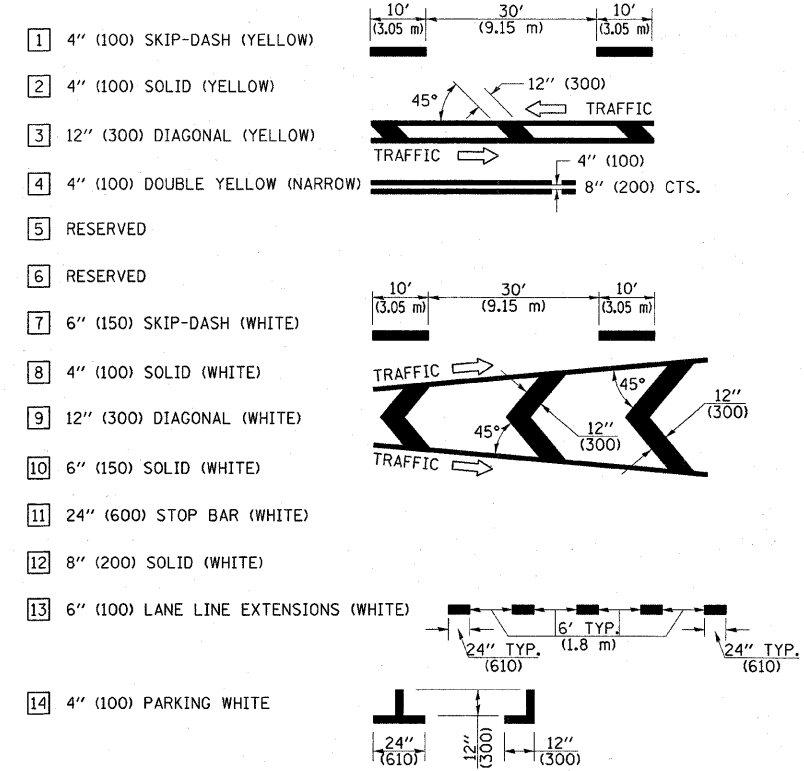


**GENERAL NOTES**

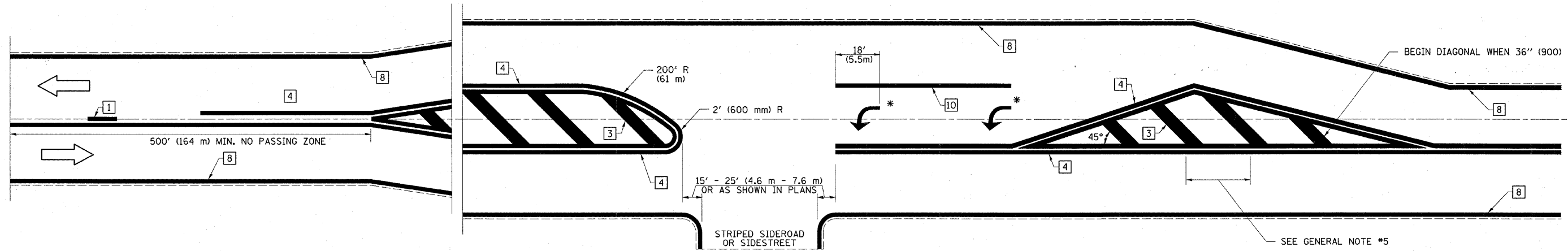
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:
 

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
> 45 MPH (> 75 km/h)	30' (9.0 m)

**PAVEMENT MARKING LEGEND**



**RURAL LEFT TURN STRIPING**



\* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

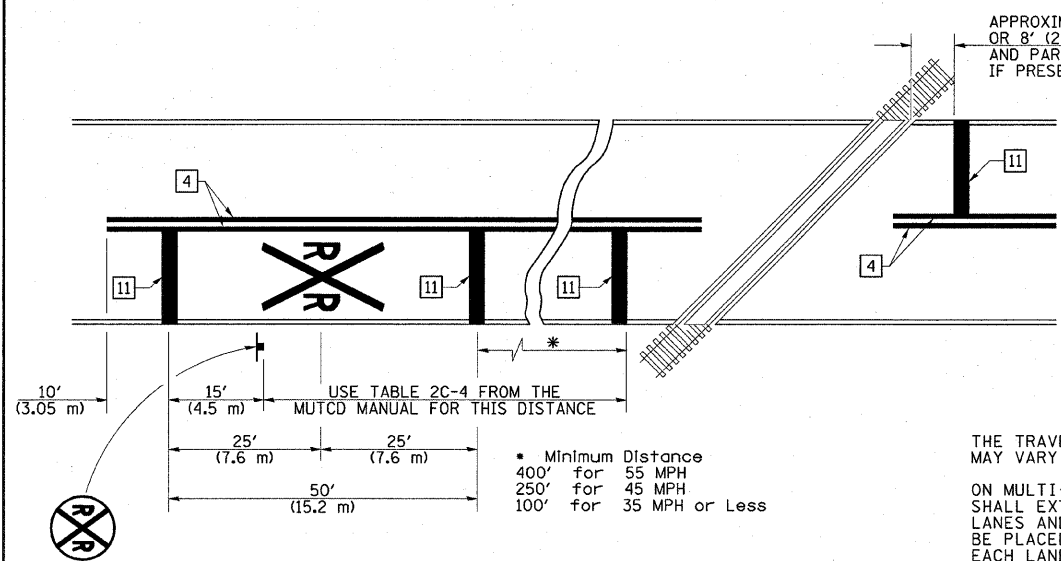
NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

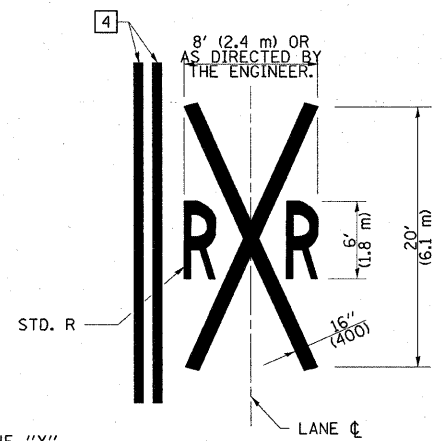
**DISTRICT 7 DETAIL NO. 7800001**

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\pwork\swartzw\d0177578\d77	447-sht-details.dgn	DRAWN -	REVISED -			116	D7 HMA RESURF 2010-1	RICHLAND	31	18	
	PLOT SCALE = 20,0000 ' / IN.	CHECKED -	REVISED -			<b>CONTRACT NO. 74447</b>					
	PLOT DATE = 2/22/2010	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



APPROXIMATELY 15' (4.5 m) OR 8' (2.4 m) BACK FROM AND PARALLEL TO GATE, IF PRESENT.



NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

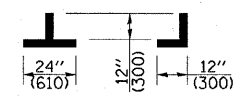
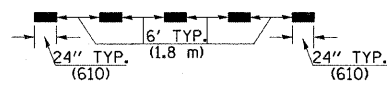
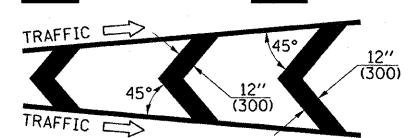
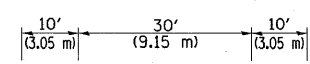
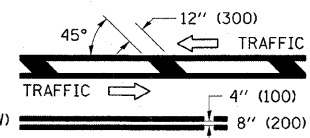
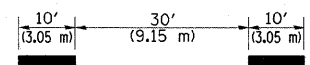
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

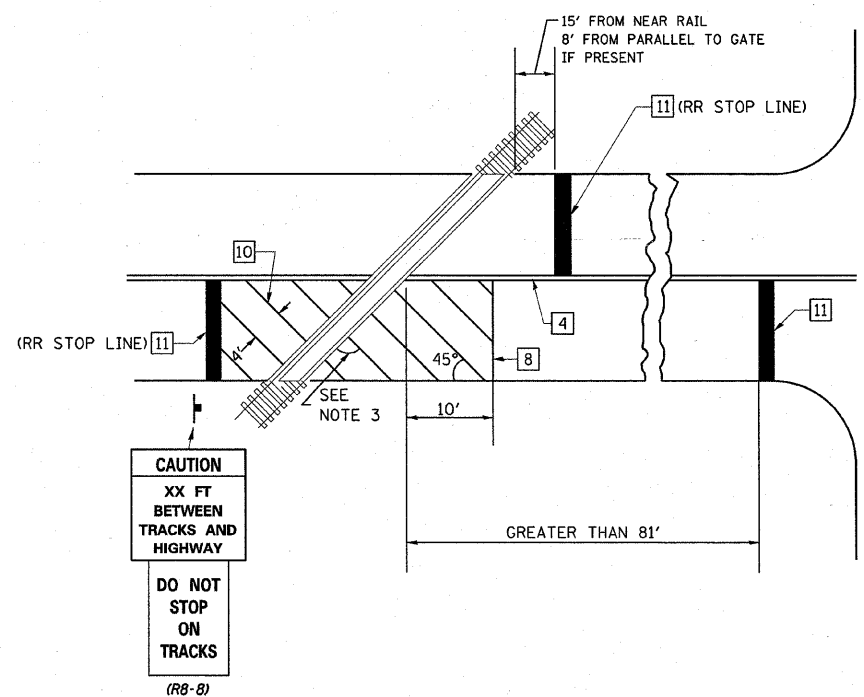
- Minimum Distance
  - 400' for 55 MPH
  - 250' for 45 MPH
  - 100' for 35 MPH or Less

PAVEMENT MARKING LEGEND

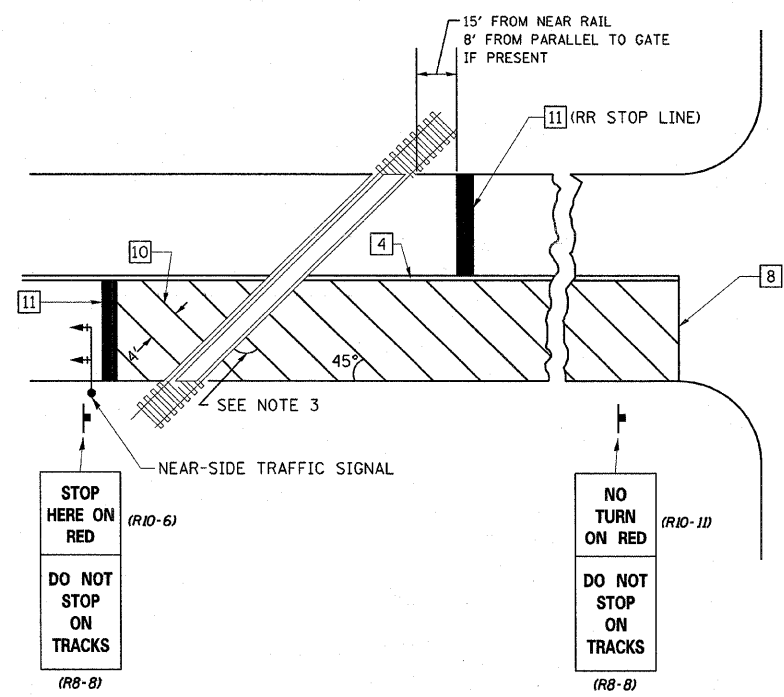
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 RESERVED
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 6" (100) LANE LINE EXTENSIONS (WHITE)
- 14 4" (100) PARKING WHITE



RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- WHERE THE ANGLE BETWEEN THE DIAGONAL PAVEMENT MARKINGS AND THE TRACK WOULD BE LESS THAN 20°, THE PAVEMENT MARKINGS SHOULD BE PLACED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

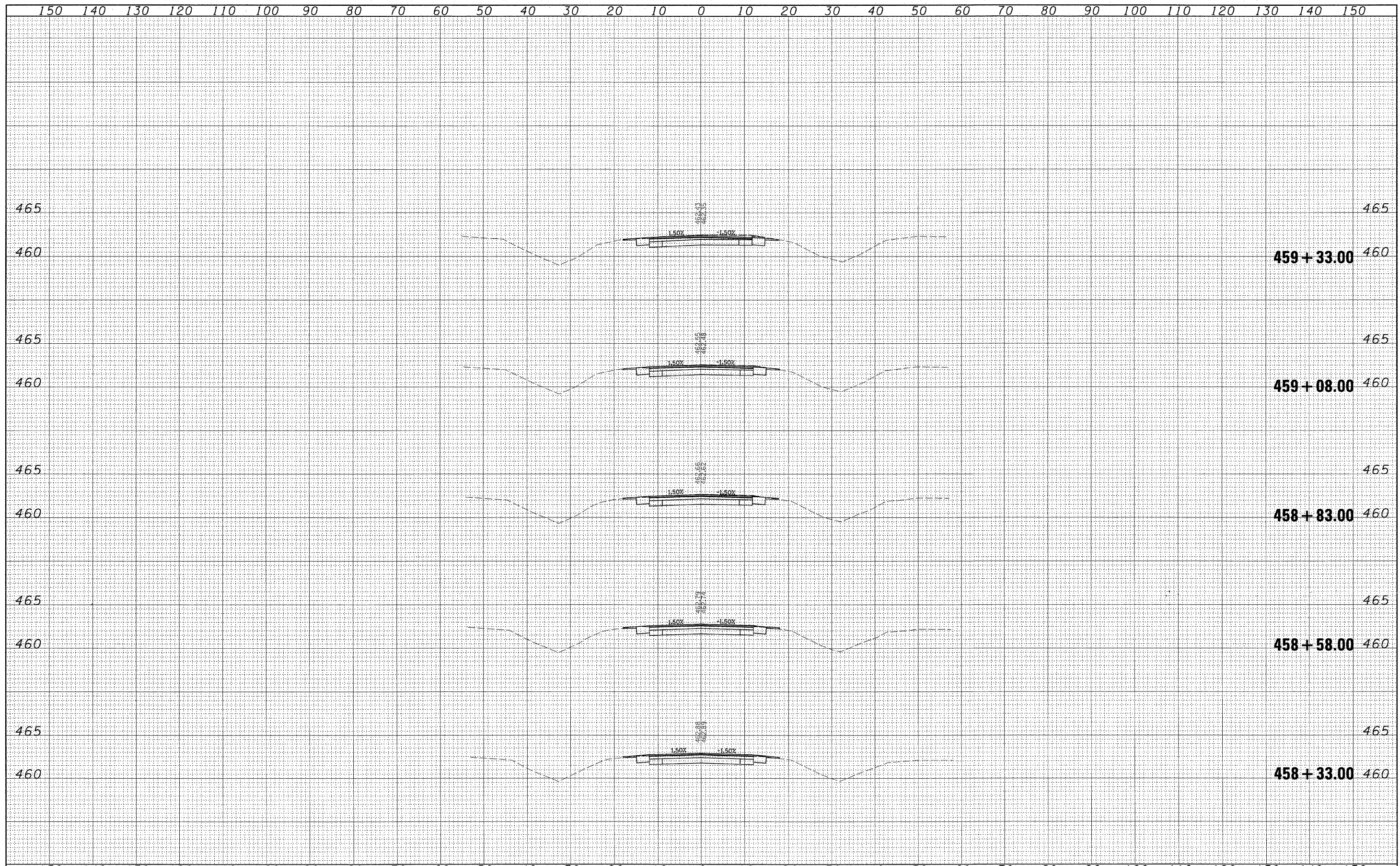
NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = swartzrw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwwork\pwwork\swartzrw\d8177578\d77447-shr-details.dgn		DRAWN -	REVISED -			116	D7 HMA RESURF 2010-1	RICHLAND	31	19	
	PLOT SCALE = 20.0000' / IN.	CHECKED -	REVISED -			CONTRACT NO. 74447					
	PLOT DATE = 2/22/2018	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					





FINAL SURVEY NO.	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	

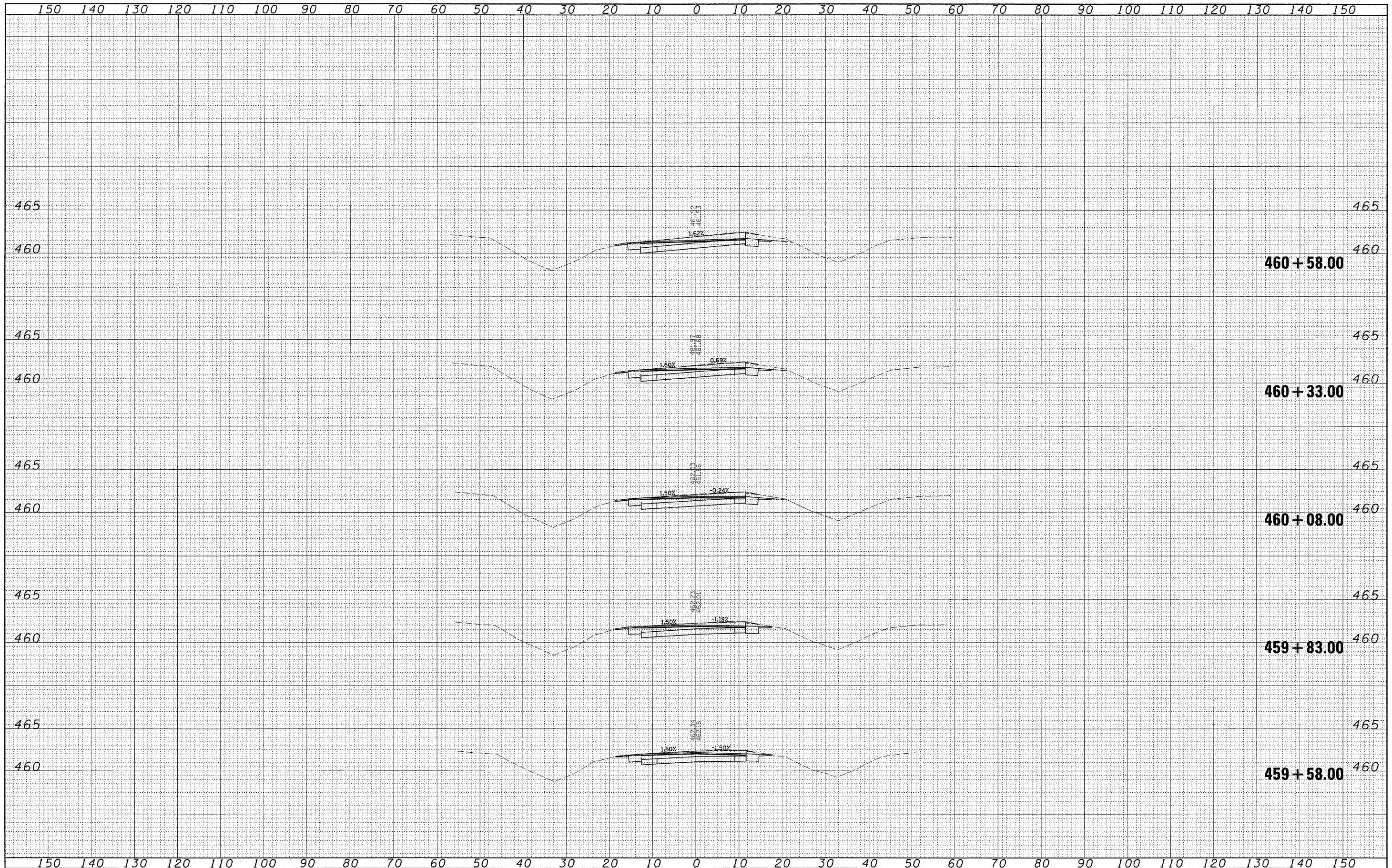
ORIGINAL SURVEY NO.	DATE
SURVEYED	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STATION CROSS SECTIONS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw_work\pwidot\swartzw\d8177561\0774447-ah	xsahldgn	DRAWN -	REVISED -		SCALE: 10	SHEET NO. 1 OF 12 SHEETS	STA. 458+33.00 TO STA. 459+33.00	116	D7 HMA RESURF 2010-1	RICHLAND	31	20	
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	PLOT DATE = 2/22/2010	DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

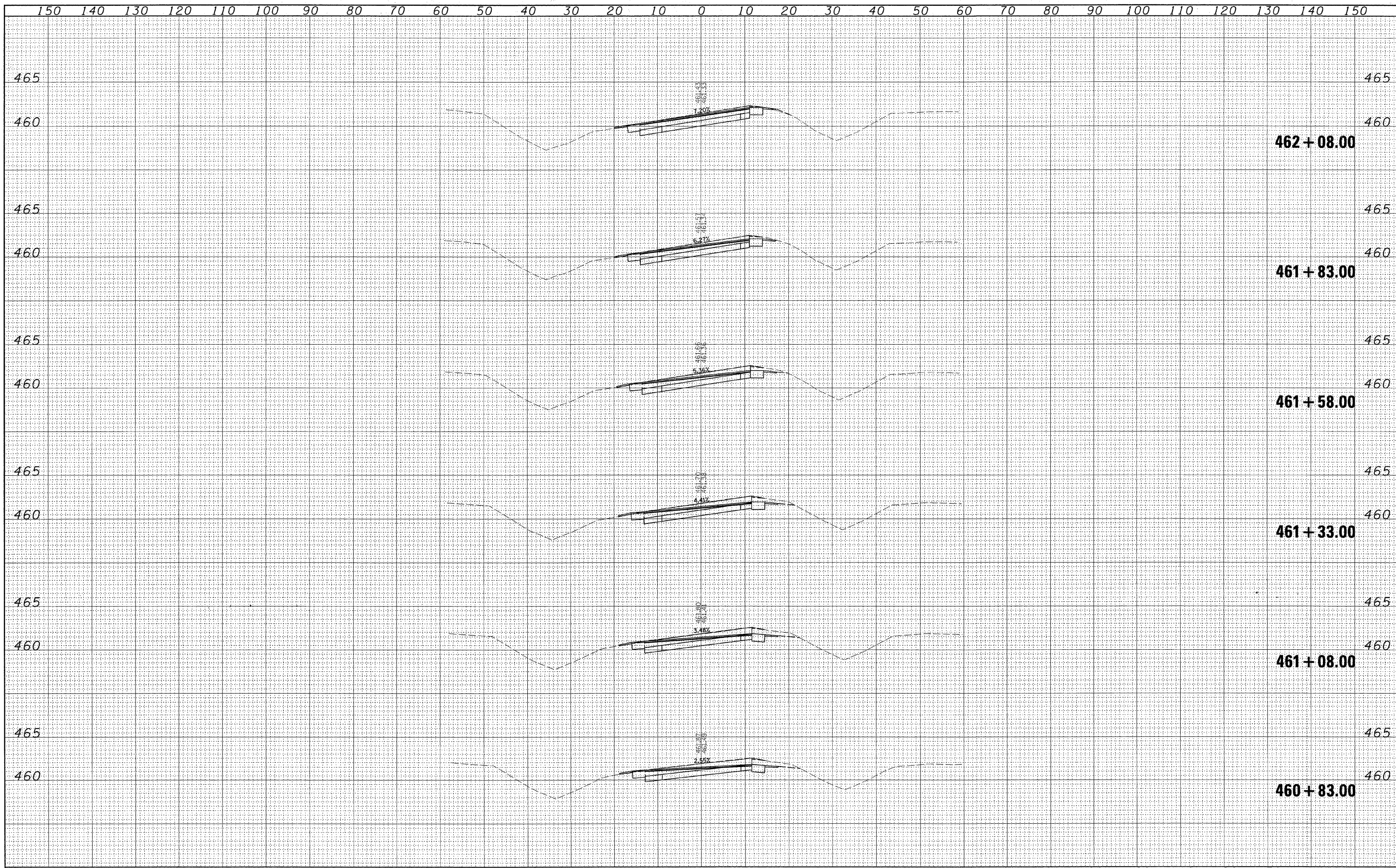


BY	DATE
FINAL SURVEY	SHAWNEE
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED

BY	DATE
ORIGINAL SURVEY	SHAWNEE
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED



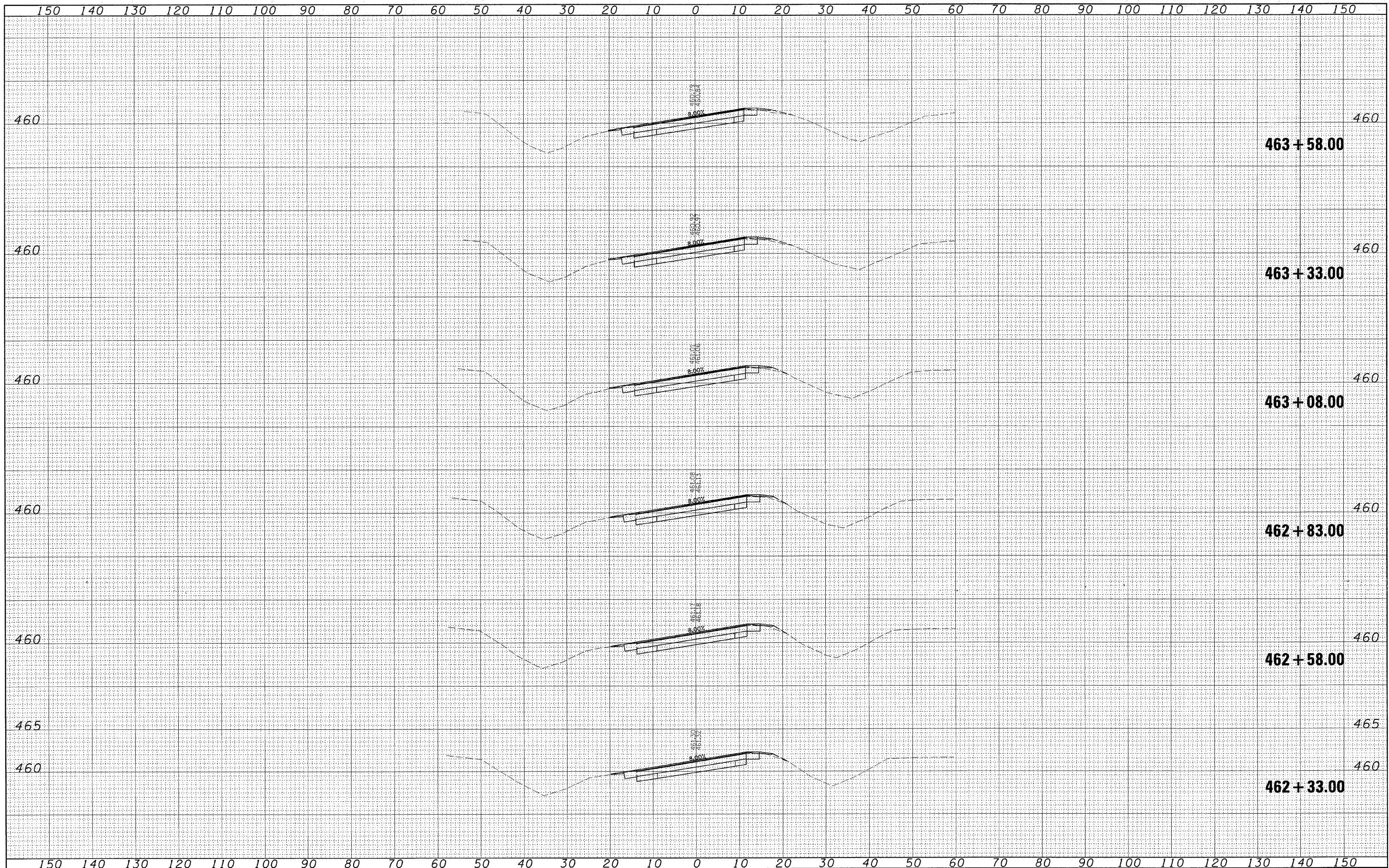
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c:\pw_work\pwidot\swartzrw\d0177561\0774447-sh	xeah.tdgn	DRAWN -	REVISED -		SCALE: 10	SHEET NO. 2 OF 12 SHEETS	STA. 459+58.00 TO STA. 460+58.00	116	D7 HMA RESURF 2010-1	RICHLAND	31	21	
		CHECKED -	REVISED -						CONTRACT NO. 74447				
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				



DATE	BY
DATE	BY
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DATE	BY





FINAL SURVEY	DATE
NO. _____	_____
NOTE BOOK	BY
NO. _____	_____
AREAS CHECKED	
AREAS CHECKED	

ORIGINAL SURVEY	DATE
NO. _____	_____
NOTE BOOK	BY
NO. _____	_____
AREAS CHECKED	
AREAS CHECKED	

FILE NAME =  
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USER NAME = swartzw  
 xaht.dgn  
 PLOT SCALE = 10.0000' / IN.  
 PLOT DATE = 2/22/2010

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

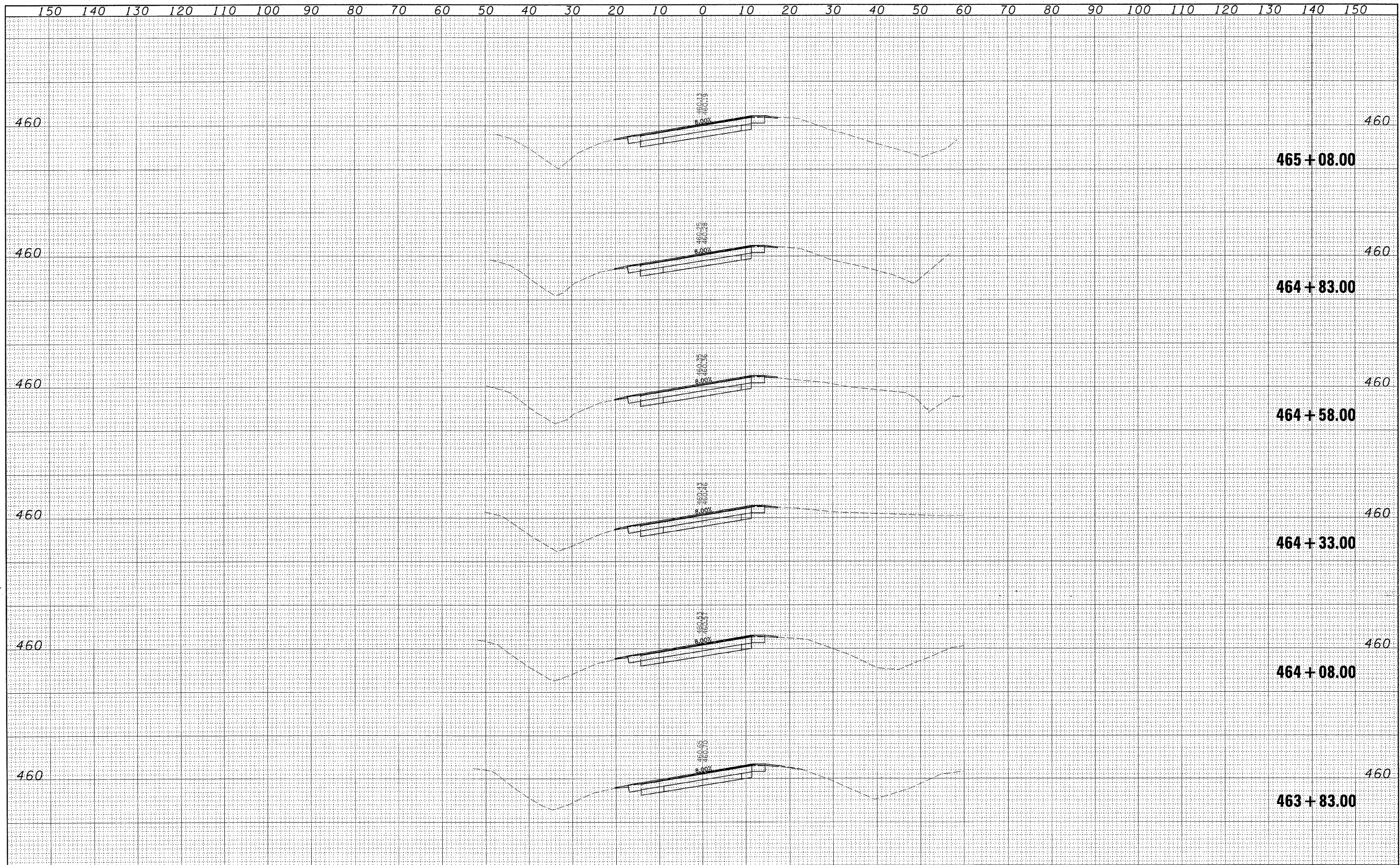
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STATION CROSS SECTIONS**

SCALE: 10 SHEET NO. 4 OF 12 SHEETS STA. 462+33.00 TO STA. 463+58.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
116	D7 HMA RESURF 2010-1	RICHLAND	31	23
CONTRACT NO. 74447			ILLINOIS FED. AID PROJECT	



DATE	BY

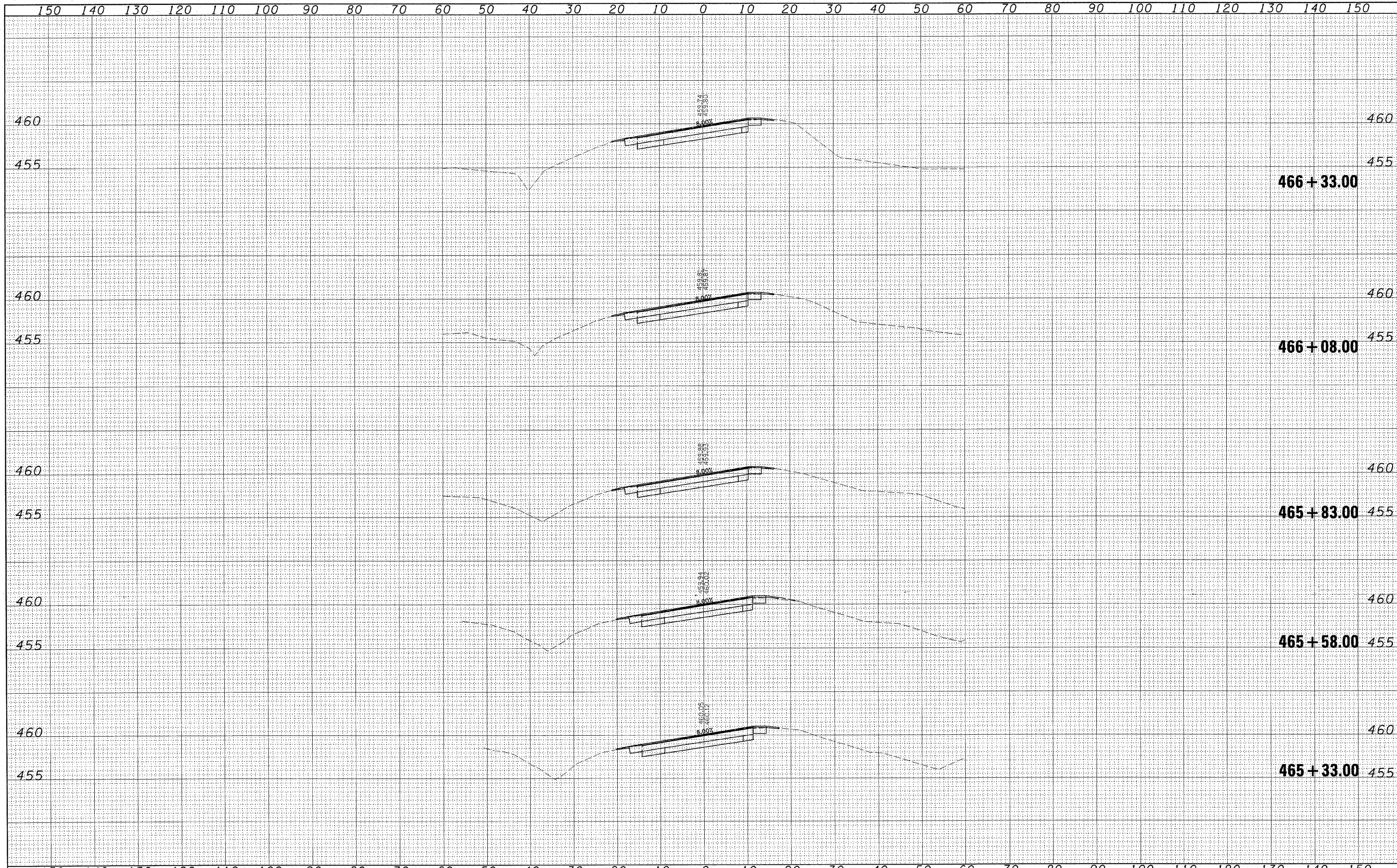
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		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

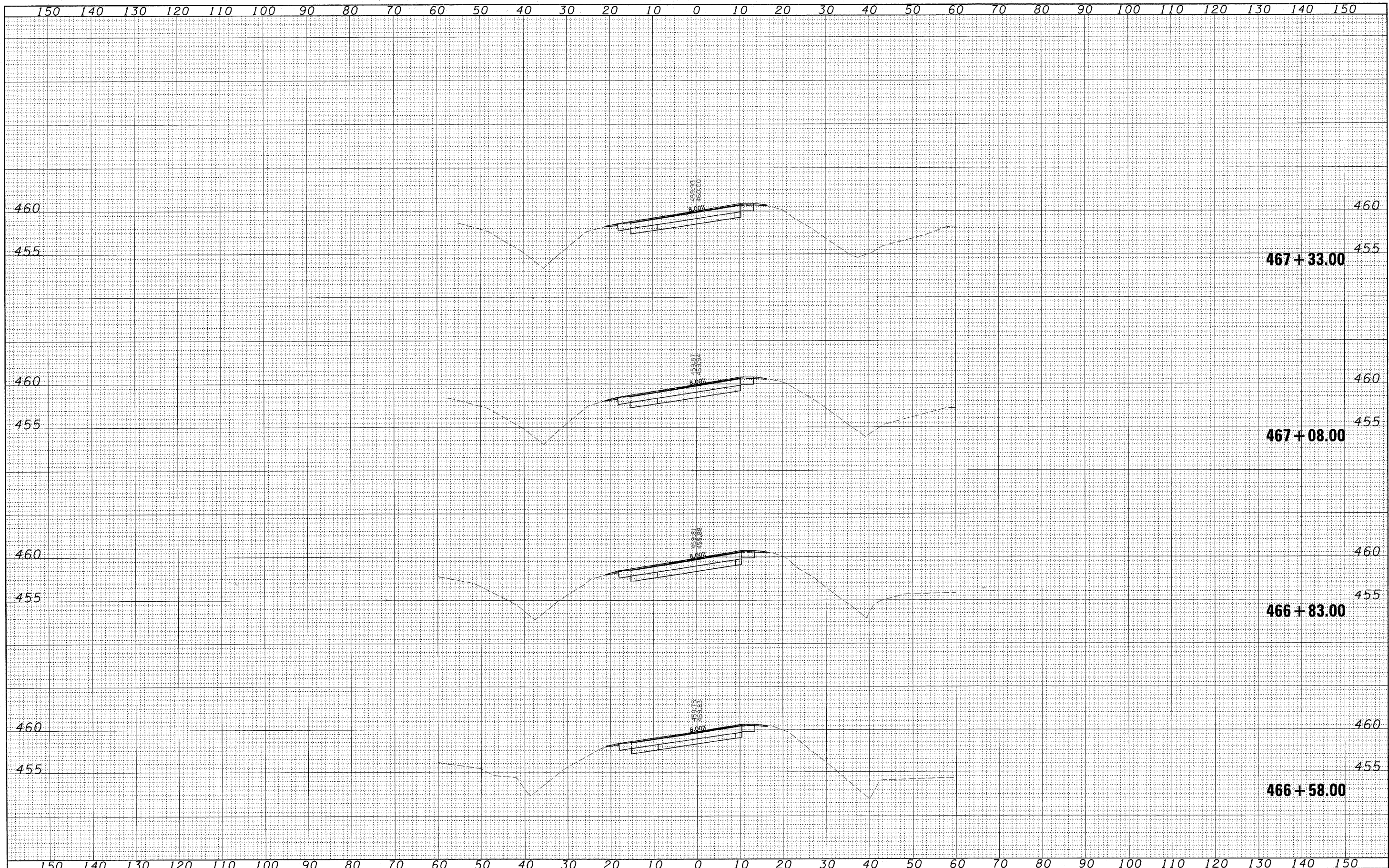


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TEMPLATE	
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PLOT DATE = 2/22/2010		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE: 10	SHEET NO. 6 OF 12 SHEETS	STA. 465+33.00 TO STA. 466+33.00						



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	AREAS CHECKED

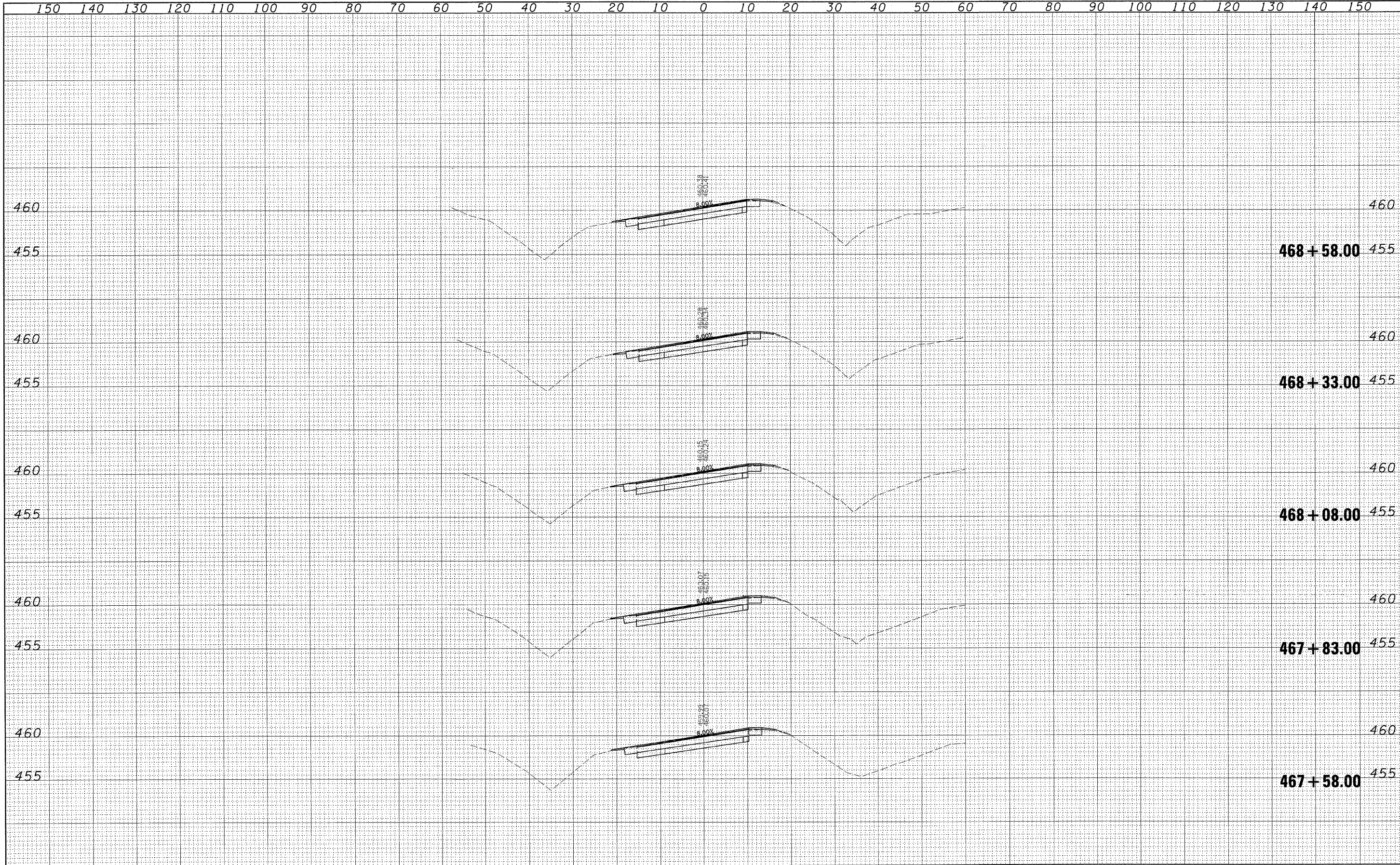
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NOTE BOOK	PLOTTED
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c:\pwork\pwork\swartzw\d0177561\0774447-sh\sshtdgn		DRAWN -	REVISED -		SCALE: 10	SHEET NO. 7 OF 12 SHEETS	STA. 466+58.00 TO STA. 467+33.00	116	D7 HMA RESURF 2010-1	RICHLAND	31	26
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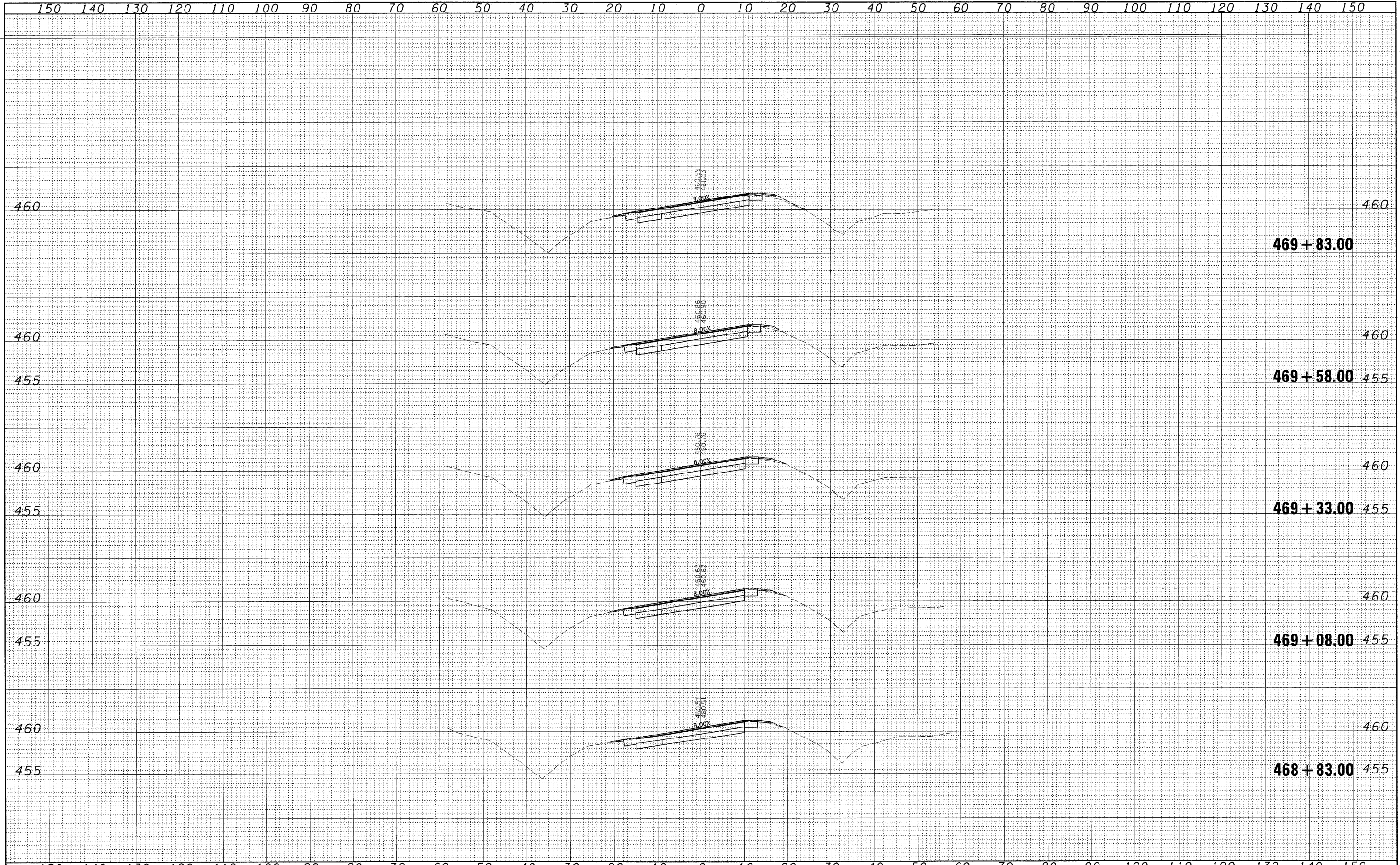


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NOTE BOOK	TEMP. DATE
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FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STATION CROSS SECTIONS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 2/22/2010		DATE -	REVISED -						ILLINOIS FED. AID PROJECT		CONTRACT NO. 74447		



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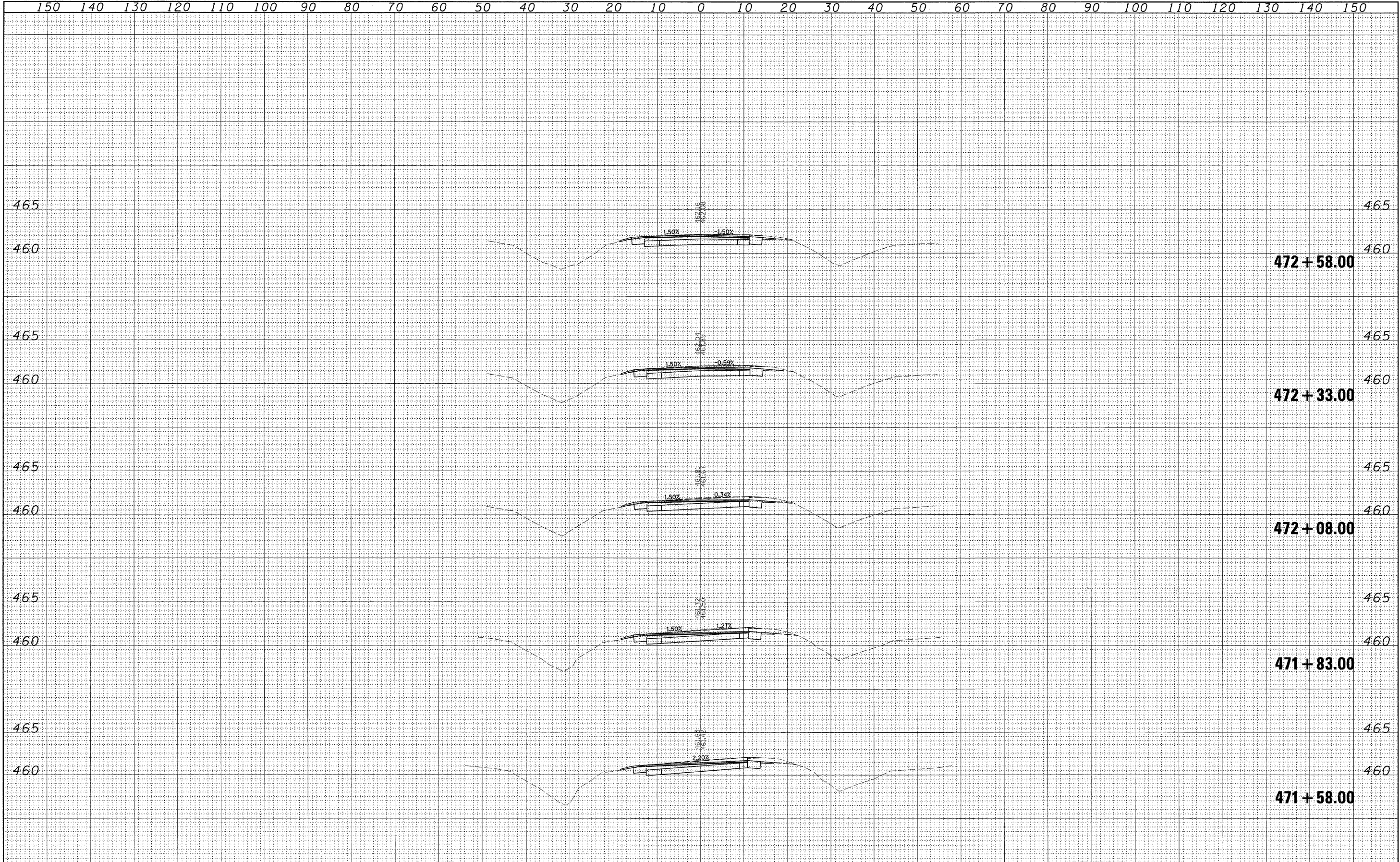
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ct:\pw_work\p\ridot\swartzw\d0177561\0774447-sh	xasht.dgn	DRAWN -	REVISED -		116	D7 HMA RESURF 2010-1	RICHLAND	31	28				
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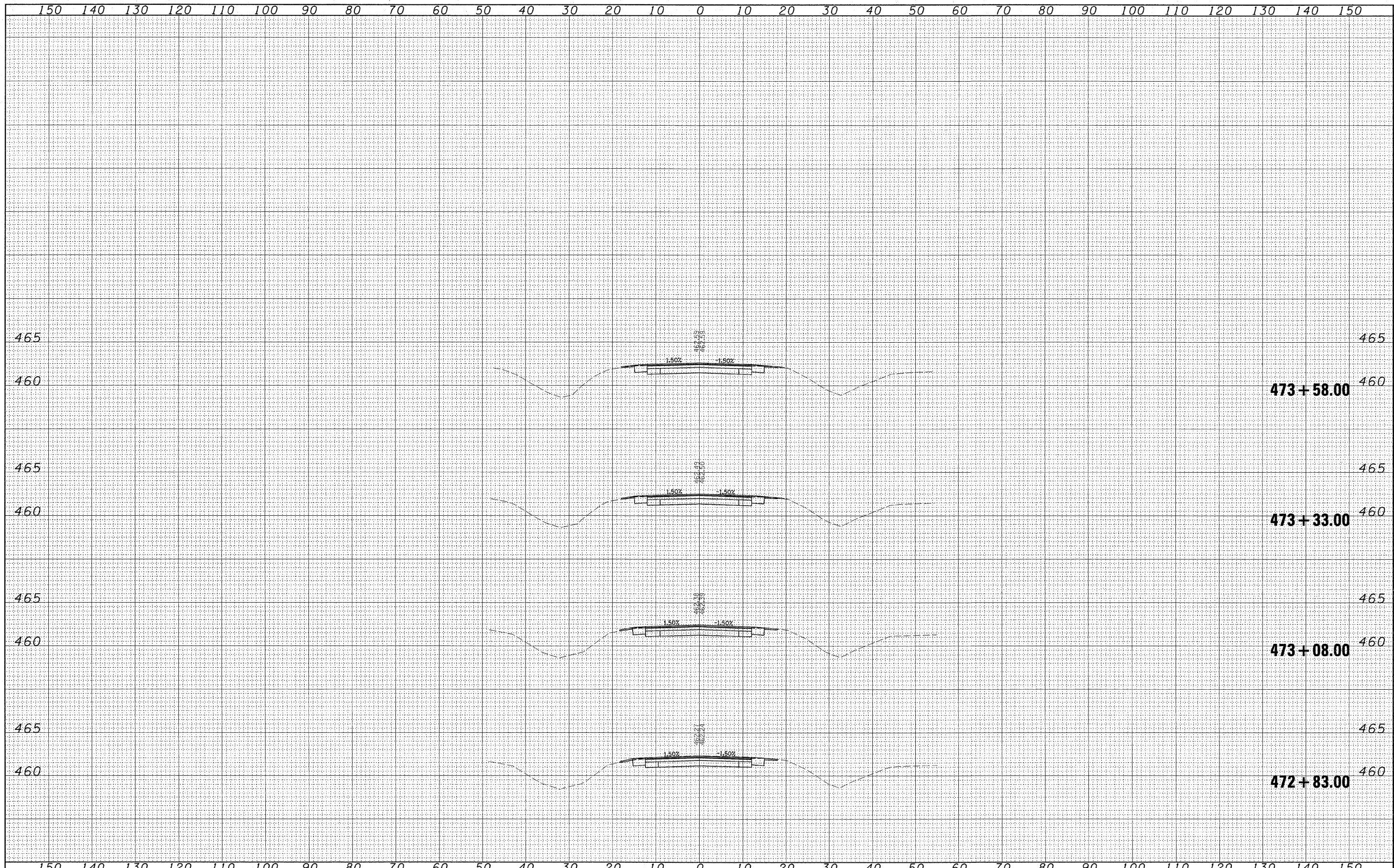
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ORIGINAL SURVEY NO.	SURVEYED PLOTTED DATE AREAS CHECKED



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ca:\pwork\pwork\swartzrw\d0177561\074447-sh	ksah.tdgn	DRAWN -	REVISED -		SCALE: 10	SHEET NO. 11 OF 12 SHEETS	STA. 471+58.00 TO STA. 472+58.00	116	D7 HMA RESURF 2010-1	RICHLAND	31	30	
		CHECKED -	REVISED -						CONTRACT NO. 74447				
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				





FINAL SURVEY NO.	SURVEYED	BY	DATE
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ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
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	AREAS CHECKED		

FILE NAME =	USER NAME = swartzw	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>STATION CROSS SECTIONS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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